

09976054-101501

<110> Cheikh, Nordine
Liu, Jingdong

<120> Nucleic Acid Molecules and Other Molecules Associated with the
Cytokinin Pathway

<130> 16517.256/38-21(15094)C

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<151> 1997-11-24

<150> US 60/069,472
<151> 1997-12-09

<150> US 60/071,064
<151> 1998-01-09

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09976054-101501

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09976054-101501

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<213>	Zea mays
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<222>	(1)...(254)
<223>	unsure at all n locations

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 acnangaccn anggatcacc gtggttnctg gtggtgnagc natagggttc atttttgggc 120
 ctctatcgc tttagccatt ggcgcaaaat ttgtgccttg angaagccnn agaanttncc 180
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 tgtcgganct gnac 254

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 <211> 272
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(272)
 <223> unsure at all n locations

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 ttcatncctc tgcgcaagcc aaggaagctc ccagggtgagg tgatctccga gaagtacgtt 180
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 cgggtgntgn tcatcgacga cctggttgcg ca 272

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 <211> 318
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(318)
 <223> unsure at all n locations

<400> 3
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 nnnnnnnnnn nnnnnnaacc catctccaca ctctgcactg taccagctg ttgcttttgt 180
 cgatctagtg ccagcctgt ggcgacaccc tgatcaagta tatgttttagc gaggagggtt 240
 cttgcttagc ccataatctc tggacaccgc cagagttggt tgtctggcct gcatgcagtt 300

gcagtcccgt gaatggga

318

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<211> 279
<212> DNA
<213> Zea mays

<400> 4

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cttcgttgag cgggtacaagg accaagggat caccgtagtt gctggtgtgg aagctagagg 120
gttcattttt ggtcctccta tcgctcttac gatcggtgct aaatttgtag ctttgaggaa 180
gccgaagaag ttgccaggcg aggtgatctc cgaagaatat tctctggaat acggaactga 240
caagatagag atgcatgttg gagctgtaca ggccaacga 279

<210> 5
<211> 440
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(440)
<223> unsure at all n locations

<400> 5

cgtccgcgcc ggccgaacttc gccttttcgt ccccgcgctca gcgtcgcggc tccnntgagc 60
gtgcgcgtca ccggcggcag gcgagggcag gcggtggtgg cgatggcgtn cgctgatgcg 120
cgcttggcgg ngatcgnctc ctncatccng gtnatncccg acttnccaaa gccagggatn 180
atgtttcagg acatcangan gntgntgttc gatcccaagg cgntccgtga caacatatac 240
cattttgtca agcgggtacaa ggaccaagggn atcaccntgg aaantaggag ttaaagctag 300
agggntcant ttcggaacaa ctanntctta naannaattg gtcaaaaatn ggtgncnatt 360
gaggaagcnn aatnagntgc cangcnaaat gatttttnang aatangaatt ttnggaatnn 420
ggaatnntag ataaaaaant 440

<210> 6
<211> 470
<212> DNA
<213> Zea mays

<220>

<221> unsure
 <222> (1)...(470)
 <223> unsure at all n locations

 <400> 6

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 gntatgggct ttanccattg gcgcaaaatt tgtgcctttg aggaagccga agaanttgc 120
 aggcgaggtg atctccnaan agtatntttt ggaatatgga actgacaana atagaaatgc 180
 atgtcggant tttacaaggc caacaaccgg cctttttgta ntncaatnat cttnttgnta 240
 ccggtggaac attttttcaa nttnnaaaaa ttttttaaac tttttgaacc aaaagntttt 300
 gaaagttcct ttgttanttn naattnncca aaaantnaan ggcccaaana aactttgnga 360
 cacgggccan atttttttcn tttgggaaaa aaaacacctt aaacngnaan ttttngacnt 420
 tttaaaaaan attttngccc cccaatnct naaaattttt catttttncca 470

<210> 7
 <211> 412
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(412)
 <223> unsure at all n locations

<400> 7

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 naaaggntgt tgagtgtgct tgcntnattg aattggcaga actgaagggc cgagacaaac 120
 ttggggacag ggcagttntt gttcttgngg aagcagatgc ttgancggaa cttgggactt 180
 ctcttctcag agagtttagag ttagcgtgtg tgatgctacc tntctggaaa acaacaaagt 240
 tncccatggt ggntanagtn nggctgacac gtaataaaan tttcatncca aattgtgatc 300
 ccctgaatga natgacaatg tagacatgat tgctggtcct tgnatactgt gggnttatta 360
 ttcacatcaa antaaangga taatcccnga atgggagctn aaaaaaangg ac 412

<210> 8
 <211> 448
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure

<222> (1)...(448)
 <223> unsure at all n locations

 <400> 8

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 agattncctc ntgcatccgc gtnatncnng acttctntnaa ancagggatc atntannang 120
 acataangac antgatgctc gaccnnaaag cgttccgtga caccatcgac gtcttctnttg 180
 agcgggtacaa ggaccaaagg gatcaccgta attgctgggt tggaagctag aggggttcatt 240
 tttggncttc tatcgctcta ccatnaatgc gaaatttgta ccttttagga agcctaaaaa 300
 atttccaagc cagggttaatc tncgaaagaa tattctcttg aatnccnaaa ctnanaaana 360
 taaatatnca ttttgganct ttacaancca aacnaattgg gcttttngta tttcnatnat 420
 nttattntca cnagtnnaac aatttttt 448

<210> 9
 <211> 437
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(437)
 <223> unsure at all n locations

 <400> 9

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 cgagagagag gaaataatgg gtgaagaggc cagctgcaac gccgtcagcg cgatggaggc 120
 cgccaccaac gccaggccgg ccaaggagaa cggacgcgcg ccggctgtgg cggaggtagt 180
 ggcccaggag gcggccactg acccccggct gcagggcatc tccgacgcca tccgcgtcgt 240
 gccgcacttc cccaagcacg gcacatgtt caacgacatc accacgctgc tgctgcgccc 300
 cagggtgttc aaggacgccg tcgacctgtt cgtcgagcgc taccgcggga tgcgcatcga 360
 cgccgtcgcc gggatcgagg ccaggggctt catatttggc ccggcagtc attggctatt 420
 gggcgccnaa ttcaaaa 437

<210> 10
 <211> 461
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(461)
 <223> unsure at all n locations

 <400> 10

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 catcgacgac ctgggttgcga ccggagggac actctgtgct gcgatcaggc ttctagaacg 120
 tgctggagcc gatgtggctg agtgcgcgtg tgtcatcggg ctcccgaat tcaaggattt 180
 gtacaagttg aatggaaaac ctgtatacgt gctgggtgag tctcgtgaat aatcggagaa 240
 atgacaactt atgctcaggt gtcagagtga tcagggatat tggctgttta ctcttgcta 300
 ctgcgattga acagtggagg gacgacatgg acaaggacaa gtatattcng tgcatacta 360
 aatcttggtg aggggagaga ttgtagtggg ttaagctgag tanttgaana acctgtaatt 420
 tctgcacnga acatgatngn tattagtttn attccaccac t 461

<210> 11
 <211> 262
 <212> DNA
 <213> Zea mays

<400> 11

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 gcgtgtcggg gccatcgagc gatccggcga gcgggtgctg gtcacgacg acctggttgc 120
 gaccggagga cactctgtgc tgcgatcagg cttctagaac gtgctggagc cgatgtggtc 180
 gagtgcgcgt gtgtcattgg gctcccgaat ttcaaggatt tgtacaagtt gaatggaaaa 240
 cctgtatacg tgctggttga gt 262

<210> 12
 <211> 253
 <212> DNA
 <213> Zea mays

<220>
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 <222> (1)...(253)
 <223> unsure at all n locations

<400> 12

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 tgctgtcggg ggccatcgag cgatccggcg agcgggtgct ggtccatcga cgacctggtt 120

09976054.101501

gcgaccggag ggacactact gtgctgcat caggcttcta gaacgtgctg gagccgatgt 180
 ggtcgagtgc gctgtgtcat tgggctcccg aaattcaagg attgtacaat tgatggaaaa 240
 cctgtatacg tgc 253

<210> 13
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 <212> DNA
 <213> Zea mays
 <220>
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 <222> (1)...(463)
 <223> unsure at all n locations
 <400> 13

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 gaggaagccg aagaagttgc caggcgaggt gatctccgaa gagtattctt tggaatatgg 120
 aactgacaag atagaaatgc atgttgagc tgtacaggcc aacgaccggg ctctttagt 180
 cgatgatctt attgctaccg gtggaacact ctgtgcagct gtcaaactta ttgaacgtgt 240
 tggagcaaag gttgttgagt gtgcttgtgt cattgaattg ccagaactga agggctcgaga 300
 caagcttggg gacaggccag tttttgtcct tgtggaagca gacgcctgag cggaatttgg 360
 gaattctcag agagtttggg gcccgtcgat gcttcctctn tggagacaac acaagtttnc 420
 catggtacca tgttggetat tttctggctt gaccgcgaat aaa 463

<210> 14
 <211> 300
 <212> DNA
 <213> Zea mays
 <400> 14

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 tcggctctcc tatcgcttta gccatcggcg caaaatttgt gcctttgagg aagccgaaga 120
 agttgccagg cgaggatgat tccgaagagt attctttgga atatggaact gacaagatag 180
 aaatgcatgt tggagctgta caggccaacg accgggctct tgtagtcgat gatcttattg 240
 ctaccggtagg aacactctgt gcagctgtca aacttattga acgtgttgga gcaaagggtg 300

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 <211> 288

<212> DNA
 <213> Zea mays
 <400> 15
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 ggaagccgaa gaagttgcc a ggcgaggtga tctccgaaga gtattctttg gaatatggaa 120
 ctgacaagat agaaatgcat gtcggagctg tacaggccaa cgaccgggct cttgtagtcg 180
 atgatcttat tgctaccggt ggaacactat gtgcagctgt caaacttatt gaacgtgttg 240
 gagcaaaggt tggtgagtgt gcttgtgtca ttgaattgcc agaactga 288

<210> 16
 <211> 297
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(297)
 <223> unsure at all n locations

<400> 16
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 gtgatctccg aagagtattc tttggaatat ggaactgaca agatagaaat gcatgtcgga 120
 gctgtacagg ccaacgaccg ggctcttgta gtcgatgatc ttattgctac cggtggaaca 180
 ctatgtgcag ctgtcnact tattgaacgt gttggagcaa aggttggtga gtgtgcttgt 240
 gtcattgaat gccagaactg aagggccgag acaagcttgg ggacaggcca gtttttg 297

<210> 17
 <211> 289
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(289)
 <223> unsure at all n locations

<400> 17
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 tattcttttg aatatggaac tgacaagata gaaatgcatg tcggagctgt acaggccaac 120
 gaccgggctc ttgtagtcga tgatcttatt gctaccggtg gaacactatg tgcagctgtc 180

09976054-101501

aaacttattg aacgtgttgg agcaaaggtt gttgagtgtg cttgtgtcat tgaattgccca 240
gaactgaagg gccgagacaa cttggggana ggccattttg gcctggngg 289

<210> 18
<211> 276
<212> DNA
<213> Zea mays

<400> 18

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gaagttgccca ggcgaggtga tctccgaaga gtattctttg gaatatggaa ctgacaagat 120
agaaatgcat gtcggagctg tacaggccaa cgaccgggct cttgtagtcg atgatcttat 180
tgctaccggt ggaacactat gtgcagctgt caaacttatt gaacgtgttg gagcaaaggt 240
tgttgagtgt gcttgtgtca tgaattgccca gaactg 276

<210> 19
<211> 267
<212> DNA
<213> Zea mays

<400> 19

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tcgcttttagc cattggcgca aaatttgtgc ctttgaggaa gccgaagaag ttgccaggcg 120
aggtgatctc cgaagagtat tctttggaat atggaactga caagatagaa atgcatgtcg 180
gagctgtaca ggccaacgac cgggctcttg tagtcgatga tcttattgct accggtggaa 240
cactatgtgc agctgtcaaa cttattg 267

<210> 20
<211> 244
<212> DNA
<213> Zea mays

<400> 20

caagatagag atgcatgttg gagctgtaca ggccaacgat cgggctcttg tagtcgatga 60
tcttattgcc accggtggaa cactctgtgc agctgtcaaa cttattgaac gtgttggagc 120
aaaggttggtt gagtgtgctt gcgtcattga attggcagaa ctgaagggcc gagacaaact 180
tggggacagg ccagtttttg ttcttgtcga agcagatgct tgagcggaac ttgggacttc 240
tctt 244

09976054-101501

<210> 21
 <211> 266
 <212> DNA
 <213> Zea mays
 <400> 21
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 acttattgaa cgtgttggag caaagggttg tgagtgtgct tgtgtcattg aattgccaga 120
 actgaagggc cgagacaagc ttggggacag gccagttttt gtccttgtgg aagcagacgc 180
 ctgagcggaa cttgggactt ctcagagagt ttggcgccgt cgatgctccc tctctggaga 240
 caacacagtt tcccatgtta ccatgt 266

<210> 22
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 <212> DNA
 <213> Zea mays
 <400> 22
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 gcaaagggtg ttgagtgtgc ttgtgtcatt gaattgccag aactgaaggg ccgagacaag 120
 cttgggggaca ggccagtttt tgctcttgtg gaagcagacg cctgagcggga acttgggact 180
 tctcagagag tttggcgccg tcgatgctcc ctctctggag acaacacagt t 231

<210> 23
 <211> 174
 <212> DNA
 <213> Zea mays
 <400> 23
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 gggctcttgt agtcgatgat cttattgcta ccgggtggaac actctgtgca gctgtcaaac 120
 ttattgaacg tggtggagca aagggtgttg agtgtgcttg tgtcattgaa ttgc 174

<210> 24
 <211> 275
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure

<222> (1)...(275)
<223> unsure at all n locations

<400> 24

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tggaatacgg aactgacaag atagagatgc atgttggagc tgtacaggcc aacgatcggc 120
tcttgtagtc gatgatctat tgccaccggt ncaacactct gtgcagctgt caaactattg 180
aacgtgttgg agcaaagggt gttgagtgtg ctgcgtcatg aatggcagaa ctgaagggcc 240
gagacaaact tggggacagg ccattttgtn cttga 275

<210> 25
<211> 229
<212> DNA
<213> Zea mays

<400> 25

gttgagtgtg cttgtgtcat tgaattgcc aactgaagg gccgagacaa gcttggggac 60
aggccagttt ttgtccttgt ggaagcagac gcctgagcgg aacttgggac ttctcagaga 120
gtttggcgcc gtcgatgctc cctctctgga gacaacacag tttcccatgt taccatgttg 180
gctattttct ggctgacgcg taataaagtt ttattccaaa ttgtgatcc 229

<210> 26
<211> 119
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(119)
<223> unsure at all n locations

<400> 26

ggaatatgga actgacaaga taganatgca tgtcggagct gtacaggcca acgaccgggc 60
ttctttagt cgatgattct tattgctacc ggtggaacac tatgtgcagc tgtcaacaa 119

<210> 27
<211> 431
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(431)

<223> unsure at all n locations

<400> 27

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 gcgtccgctg acgcgcgcctt ggcggggatc gcctcctcca tccgcgtcat ccccgacttc 180
 cccaagccag ggatcatgtt ccaggacatc acgacgttgc tgctcgatcc caaggcggtc 240
 cgtgacacca tcgacctctt tgtcgagcgg tacaaggacc aagggatcac cgtgggttgct 300
 ggtgttgaag ctagaggggtt catttttgggt cctcctatcg ctttagccat tggcgcaaaa 360
 tttgtgcctt tgaggaaacc gaagaagttt ccaagccaag gttatttccc naanaattat 420
 cctttggaaa a 431

<210> 28

<211> 460

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(460)

<223> unsure at all n locations

<400> 28

gccacgcctt cccggcagtc nttggcattc ccgtcccgtc ggcgcccggc cgaccccgtc 60
 ttttcgtccc cgcgtcaagc gtcgcgggct tccactgaag cgtgcgttgt caccggcggtg 120
 gaggcaaggg caggcggtgg tggcgatggc gtcccgtga cgcgcgcttg gcggggatcg 180
 cctcctccat ccgcgtcatc tccgacttcc ccaagccagg gatcatgttc caggacatca 240
 cgacgttgct gctcgatccc aaggcggtcc gtgacaccat cgacctcttt gtcgagcggt 300
 acaaggacca agggatcacc gtgggttgctg gtgttgaagc tagagggttc atttttggtc 360
 ctctatcg ctttagccatt ggcgcaaaat ttgtgccttt gaggaaaccc gaagaagttg 420
 ccaggccaag gtgatctccg aagaggtatt cttttggaat 460

<210> 29

<211> 431

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(431)
<223> unsure at all n locations

<400> 29

cgcggtctcgt ccccggtccgc atccggtcc gcgcccgcctt ttcgtccccg cgtcggcgctc 60
gcgggtccac tggggttacg cgtcaccggc ggaaggcgag ggcaggcggt ggtcgcgatg 120
gcgtccgccc acgcgcgcctt ggcggggatt gcctcctcca tccggtcat ccccgacttc 180
cccaagccag ggatcatgtt ccaggacatc acgacactgc tgctcgacct caaggcgcttc 240
cgtgacacca tcgacgtctt cgttgagcgg tacaaggacc aagggtcac cgtagtgtgct 300
gggtgtggaag ctanagggtt ctttttgggt cctcctatcg ctctaaccat cantgcgaaa 360
ttttgtacct ttganggaac ctaaagaaat tnncaaggcn aagggtgatnt ccgaaanaat 420
aatccnctgg g 431

<210> 30
<211> 472
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(472)
<223> unsure at all n locations

<400> 30

gccagtcttg catcccgtcc ccgtccgcgc cggccgacgc cgccttntcg tccccgcgtc 60
agcgtcgcgg ctccactgag cgtgcgtgtc accggcgagg ggcaagggca ggcgggtggtg 120
gcgatggcgt ncgctgacgc gcgcttggcg gggatcgctt cctccatccg cgtcatcccc 180
gactttccca agccagggat catgttccag gacatcacga cgtttgctnc tnnatnccaa 240
ggcgttccgt gacaccatcg acctcnttgt cgagcggtag aaggaccaag ggatcacctg 300
ggttgctggt gttgaancta gaggggttcat ttttggtcct tctatngctt tagccattgg 360
cgcaaaaatt gngcccttta agaaanccga ataaatntca ncnaggngat ttngaagaa 420
ntttttttga aanttggact tttccanant naantgggtt tnnngngttt nc 472

<210> 31
<211> 271
<212> DNA
<213> Zea mays

<220>

<221> unsure
 <222> (1)...(271)
 <223> unsure at all n locations

 <400> 31

 gcgagggcag gcggtggctg cgatggcgtc cgccgacgcg cgcttggngg ggattgcctc 60
 ctccatccgc gtcatccccg acttccccaa gccagggatc atgttccagg acancacgac 120
 actgctgctc gacccaagg cgttccgtga caccatcgan ctcttcgttg agcngtacia 180
 ggaccaaggg atcacgtag ttgctgggtg ggaagctaga gggttcattt ttggtccctc 240
 ctatcgctct agccatcggt gctaaatttg t 271

<210> 32
 <211> 294
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(294)
 <223> unsure at all n locations

 <400> 32

 gtctcgcatc cegtccecggt ccgcnccggc cgacgccgcc ttttcgtccc cgcgtcaggt 60
 ncgcgggctc cactgagcgt gcgcgtcacc ggcggcaggc gagggcaggc ggtggtggcg 120
 atggcgctcc ctgatgcgcg cttggcgggg atcgctcct ccatccgcgt catccccgac 180
 ttccccaagc cagggatcat gtttcaggac atcacgacgt tgctgctcga tcccaaggcg 240
 ttccgtgaca ccatcgacct ctttgtcgag cgggtacaagg aacaagggat cacg 294

<210> 33
 <211> 285
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(285)
 <223> unsure at all n locations

 <400> 33

 gtccccgtcc gcgccggccg acgccgcctt ttcgtccccg cgtcagggtc gcgggctcca 60
 ctgagcgtgc gtgtcacng ngggaggcaa gggcaggcgg tgggtggcgat ggcgtccgct 120
 gacgcgcgct tggcggggat cgctcctcc atccgcgtca tccccgactt cccaagcca 180

0975054-101501

gggatcatgt tccaggacat cacgacgttg ctgctcgatc ccaaggcggt ccgtgacacc 240
atcgacctct ttgtcgagcg gtacaaggac caaggatcac cgtgg 285

<210> 34
<211> 269
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(269)
<223> unsure at all n locations

<400> 34

cngacgctgg gcgccggccg acgccgcctt ttcgtccccg cgtcagggtcc gcgggctcca 60
ctgagcgtag gtgtcaccgg cgggaggcaa gggcaggcgg tggtagcgat ggcgtccgct 120
gacgcgcgct tggcggggat cgctctctcc atccgcgtca tccccgactt cccaagcca 180
gggatcatgt tccaggacat cacgacgttg ctgctcgatc ccaaggcggt ccgtgacacc 240
atcgacctct ttgtcgagcg gtacaagga 269

<210> 35
<211> 285
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(285)
<223> unsure at all n locations

<400> 35

cgcacccgt ccccggtcgc nccggcngac gccgcctttt cgtccccgcn tcagggtccgc 60
ggctccactg agcgtgcgcy tcaccggcgg caggcgaggn caggcggtgg tggcgatggc 120
gtccgctgat gcgcgcttgg cggggatcgc ctctccatc cgcgtcatcc ccgacttccc 180
caagccaggg atnatgtttc aggacatcac gacgttgctg ctcgatccca agggcggtcc 240
gtgacaccat cgacctcttt gtcgagcggg acaaggacca agggg 285

<210> 36
<211> 287
<212> DNA
<213> Zea mays

<220>
 <221> unsure
 <222> (1)...(287)
 <223> unsure at all n locations

<400> 36

cnagtntcgc atccccgtccc cgctccgcacn ggcn gangcc gcctttncgt ccccgcgctca 60
 ntncgaggac tccactganc gtgcgcgtna cggcgggcag gcgaggncag gcggtggtgg 120
 cgatggcgctc cgcngatgcg cgcttggcgg ggatngcctc ctccatccnc gtcacccccg 180
 acttccccaa nccagggatc atgtttcagg acatcacgac gttgctgctc gatcncaagg 240
 cgttccgtga caccatcgac ntctttgtcg ancngtaciaa ggaccaa 287

<210> 37
 <211> 458
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(458)
 <223> unsure at all n locations

<400> 37

ttcacnecgn cggtttncgc ttttcggcat nccgtccccg tccgcgcggg gncgattncg 60
 ncttttcgtn ngcgcgctcag ngtcgcggct cccactgagcg tgcgtgtcac cggcgggagg 120
 caagggcagg cgggtggtggc natggcgctc gctgacgcgc ncttggcggg gatcgccctc 180
 tncatnecgn tcatccccga cttccccaaag ccagggatca tgttccagga catcacgacg 240
 ttgctgctcg atcccaaggc gttncgttga caccatcgac ctnttttgtc gaancggtac 300
 aaggaccaan ggatcacctg ggnttgctgg tgttgaagct agagggttna ttttttggtc 360
 cttctatcgc tttanccatt ggcgcaaaat ttgtgccttt gaagaanccc aaaaaagttg 420
 ccacgcnaa gtgaacttcc gaaaaaggtt cttttgga 458

<210> 38
 <211> 272
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(272)
 <223> unsure at all n locations

<400> 38

cngacgctgg ggcgcgctcc ccgtccgcgc cggccgncgc cgccttttcg tnccegcgtc 60
 agntgcgcgg ctacactgag cgtgcgtgtc accggcgana ggcaagggca ggcggtggtg 120
 gcgntggcgt ccgntgncgc gcgcttggcg gggntcgctt cctccatccg cgtcatcccc 180
 gncttcccca agccagggnt cntgttccag gacntcacgn cgttgctgct ngntnccaag 240
 gcgttnecng ncaccntngn cntctttgtc ga 272

<210> 39

<211> 216

<212> DNA

<213> Zea mays

<400> 39

caagggcagg cgggtggtggc gatggcgctc gctgacgcgc gcttggcggg gatcgctctc 60
 tccatccgcg tcatccccga cttccccaag ccagggatca tgttccagga catcacgacg 120
 ttgtgctcga tcccaaggcg ttccgtgaca ccatgacttt tgtcgacggg acaggacaag 180
 gatcacgtgg ttctgtgttg agctagaggt catttt 216

<210> 40

<211> 312

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(312)

<223> unsure at all n locations

<400> 40

ancctcgcgt cccgtccgcn tccgcgccgc ctttttcgtc cccgcgtccg cgtcgcgggt 60
 tccactgggc gtgcgcgtca ccggcgggag gcgagggcag gcggtggtcg cgatggcgtc 120
 cgccgacgcg cgcttggcgg ggattgcctc ntccatccgc gtcaatcccc gacttcccca 180
 agccaaggat catgttccag gacatcaacg acaatgctgc tcgaccccaa agcgttccgt 240
 gacaccatcg aactcttcgt tgancggtaa naagaacaan ggattaaccg taantgctgg 300
 tgtngaaact aa 312

<210> 41

<211> 237

<212> DNA

<213> Zea mays
 <400> 41
 tgtgcggggc tacttcgctt ggtctctggt ggacaacttt gaatggaccg cgggctacac 60
 cgaacgttac ggcatagtct acgttgaccg taatgacggc taaaaacgct acatgaagaa 120
 gtcagccaag tggttgaaag agttcaacac tgagaaggct ggcagcgcct aatgatgtgc 180
 catgcataaa agaccggggtc tgtgtgattt gaattctata tttttatttg cacctcc 237

<210> 42
 <211> 280
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(280)
 <223> unsure at all n locations

<400> 42
 gncgggcatc ccantggtcc ttggatgggg anttcgtgga tctacntann tcctgaaggc 60
 tannggatnt agcttatnat cangaagaac aaatacggaa anccacccat ctacatcact 120
 gagaacggga tgngtgacgt tgancatggc gatctacca tggaagttgc cttggatgac 180
 cacannagng tanattanct ncagcgcgac atcganantc ttanggcgctc aaganacttg 240
 ggagcnaatg tgcagggcta cttcgcntgg nctctattgg 280

<210> 43
 <211> 282
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(282)
 <223> unsure at all n locations

<400> 43
 cggnacntgg tatgcttctg tgactatgga attttgtaaa cagcttttaa tgcattgttg 60
 agtatttatt aattttgtat acttctttga aaatgagctt ggtgttgat ttgcaaatca 120
 tcagatggtg actatatggg aatgtatttg gttacccaat gtggaatggt ttattttcat 180
 gattttgtgt taacagaagt tttaaccttt aagggctctgt ttgggtgggc tgtggctgtg 240
 aaaaaagttg ctgtgggctg tgagctgtga aaaaagctgc tg 282

<210> 44
 <211> 294
 <212> DNA
 <213> Zea mays

<400> 44

accatcgcta cgtgggagat ctggagatcc tgcagtcgct gggagtcaac gcctacagat 60
 tctccatctc atgggcgagg gttctaccaa gagggccgggt tgggtggcgtc aatgcaggcg 120
 gggtagcttt ctacaaccgc ctgatcgatg cgctcctgca gaaaggaata cagccattcg 180
 tcactctgaa ccatttcgac atgccgcgcg agctggaggt ccggtacgtg gctggctgga 240
 cgctgggatc cgggaggagt acgagcacta cgcggacgtc tgcttcgggg cgtt 294

<210> 45
 <211> 279
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(279)
 <223> unsure at all n locations

<400> 45

gaaaaagctt cttcctggat ccagccattt gggttggtttt tggcttttag gggggcaaaa 60
 gccaaagcca aaattcaaac caaacacacc cagtcatttt ggcttttcta tatacaatgc 120
 tttaactatg tatttagata tagtgtatat ttaagtgcac tataaaagat gccccctcca 180
 tcccnnaata aaatgtgttt taccttttta gttgatacat gcaataatga atatatttgt 240
 cttacatatg tgtctagatt catcatcatc catttgaac 279

<210> 46
 <211> 140
 <212> DNA
 <213> Zea mays

<400> 46

gtcatattct ccagcaccgt ggctaataat gtattgttgc agtacaaaaa aaaaaatata 60
 atccacaagg taaatttctt aatctataac cactatttga aattggtagt ctacaatcta 120
 tttgatgctt taagtgaact 140

<210> 47
 <211> 291
 <212> DNA
 <213> Zea mays

<400> 47

aggaaaacaa attatacaac tttcatgagt atttaagagc aagcacacgg gctcagttga 60
 tgaattccct gaatcacatt tcccatatgg ctcggaacaa cggttgggtg gaaatgcccc 120
 aatggagtat gcaagcttta caataagatt tggctcattg aatgtgaccc agtgctttac 180
 tcggtcacca aacatcttga agcaaagctc aacgaagtag gtgaagtcct ccctgaatag 240
 aaataaagaa acaaccacat atgaacttac ggcattcttcg tagataaagc t 291

<210> 48
 <211> 315
 <212> DNA
 <213> Zea mays

<400> 48

cccaggacaa aaatgcgcta acccaaccgg gaactcgctc accgagccat acattgttgc 60
 ccacaacctc ctccgagctc acgctgagac tgtccatgag tacaacaagc attacagagg 120
 taacaaggac gcacagatag ggattgcatt cgacgtgatg ggccgtgtgc catatgacaa 180
 tatgtttctc gacggccagg cccaagaaag gtccattgat tataacctag gatggttcat 240
 ggagccggta gttcgcggcg actacccttt ctccatgaga tcattgatca aggatcggct 300
 accctacttc accga 315

<210> 49
 <211> 290
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(290)
 <223> unsure at all n locations

<400> 49

ctgccagcgt atgggcctga cgggaaaccc attggtcctc ctgtacgtat atctttccaa 60
 cactatatga atttgttcac attattctan atttatgttt aaagtgattg gtgtaaaaaa 120
 ttcattccaaa aatataagca cagaagaatg ttgtctcatg gatgaaatta tacgtgttga 180
 gtagcaaatg ttttgtgttg gcagtaaagc agaacaaatc tttacttttt tgtggaaata 240

tgcatgttgt taactagtga ataatatctg ctacaatttg cagatgggaa 290

<210> 50
<211> 299
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(299)
<223> unsure at all n locations

<400> 50

ctaatatgga cggaaaaaaaa atgccacaaa caactatatatt ttagcggaat gattaataat 60
ctaattggtat acatgacgta tgggcttcta agcaagccat gtgcagaaat gcagaatcng 120
cccatagccg gcatcgacgg acctgggcat gttgggctgg agtcctaaga tgaccttttt 180
gcgagatatt tgactcaaac aatctaacca actcaactaa actagatact tttggctctt 240
ttattttcttt tcacgaaact ttttgtcaac gtaggttttt agtttggtat acttattaa 299

<210> 51
<211> 250
<212> DNA
<213> Zea mays

<400> 51

ggccgggtcta gtccgaggct ccatcgacta cgtcggagtc aaccagtaca ctgcctacta 60
cgtgcgtgat cgacggccaa acgctacggc ggcgccgccc agctactcgt ccgactggca 120
cgctgagttc gtctatgaac gcgacggtgt gccgattgga ccaagggcga actcagactg 180
gctctacatc gtgccttggg gactgtacaa agccgtcacc tacgtcaagg agaagtacgg 240
caacccacg 250

<210> 52
<211> 237
<212> DNA
<213> Zea mays

<400> 52

gggaccgact acccttcttc actgacgagg agcgagagaa gctagtgggc tcatatgaca 60
tgctgggggt aaactactac acctcaaggt tctccaaaca catcgatatc acgcaacaca 120
acacactaag gctcaacact gacgatgcat atgccagtca ggaaacgaaa gggcctgacg 180

09976054-101501

gcgagcccat tggctctccg atggggaatt ggatctacct gtatcctcaa ggcctaa 237

<210> 53
<211> 315
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(315)
<223> unsure at all n locations

<400> 53

anacaatctt cagaatactc tggggggctg gatttctgac aagattgtgg agtactttgc 60

attgtatgca gaagcttgct ttgcaaattt tggagacagg gtaaagcatt ggataacaat 120

caatgaacct ctccaaactg caatcaatgg ttatgggatt ggaatttttg cacctggagg 180

atgccaaagg gaaactgcta gatgttactt ggctgccccat caccaaactt tggtctcatgc 240

tgctgctgtt gatgttatag aagaaaatcg aggctgcaca agtgtgaagt aggggtgggtg 300

tgattgtgaa tgggc 315

<210> 54
<211> 339
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(339)
<223> unsure at all n locations

<400> 54

gggcgctgga tccgcgggcg gcggtgaatc gcgtgcgggc tgacgtgagc gctgagcggg 60

attcgcggcg ggggcagtct acgctccact cttaatagtt gtagagatac tttataaaaa 120

gtacttttta tgacaaattg acgcatataa atatcagggt ccaaaaaacta aataacaaaa 180

tagttatttg tagtcaaaat tttataagtt tgactcgaac cttatccaaa acgacaacta 240

ataggaaacc ggagggagta cgtgacccaa caccaccatt taagaccgac ggagaaccac 300

atggacatgg ggcgtgnttg ggaaggtgcc cagtanccc 339

<210> 55
<211> 187
<212> DNA

0976054.101501

<213> Zea mays
 <400> 55
 gatttataac ctaggatggg tcatggagcc ggtcgttcgc ggcgactacc ctttctccat 60
 gagatcattg atcaaggatc ggctacccta ctttaccgac gacgagaaag agaagctagt 120
 gggttcgtat gacataatgg ggataaacta ctacacctcg aggttttcca agcacatcga 180
 catctcg 187

<210> 56
 <211> 271
 <212> DNA
 <213> Zea mays

<400> 56
 cctttttacaa actcaactga agatcaaaaa gcagcgcaaa gggccaggga cttccatatt 60
 ggttggtttc ttgatccatt aataaatggg caatatccaa cgataatgca agacattgtg 120
 aaagaccggc taccaagttt cacacctgaa caggccaagc tagtcaaggg ctcacatcagat 180
 tatttcggga tcaatcaata tactacatac tacattgcag atcaacaaac tcctccgcag 240
 gaccaccgag ctactcgtcc gactggggcg t 271

<210> 57
 <211> 275
 <212> DNA
 <213> Zea mays

<400> 57
 cgaaagaaca cctctgtttt ctctgtttga aagatgagct taatcctata aacgcacaca 60
 agaagctaac ttaagaagcg ttcccatgca tacgcattag cttggctaga tgagtcacta 120
 tgacaatgac cgggtccagt gatgtgtctg gtctaatecg gatcgtccgg caagaaaaga 180
 aatgaaatca ggtgcattga acctgagctt gtcataatc caccacatct caaaatataa 240
 acatatattc atcaatcatc tacgaatgca atttg 275

<210> 58
 <211> 315
 <212> DNA
 <213> Zea mays

<400> 58
 cgcagagggg cagggtcggg atcctgctgg atttcgtgtg gtacgagccc ctcacggggc 60

gactcagccg cgcaccgggc cgccgctcaa aggtccagag acttccacgt cggatgggttc 120
 ctgcacccca tcgtctacgg cgagtacccc aagtcgggtcc ggagaagcgt caagggcagg 180
 ctccccaaagt tcacgggtga ggaggccgggt ctagtccgag gctccatcga ctacgtcgga 240
 gtcaaccagt aacttgcta ctacgtgagt gatcgacggc caaacgctag ggggcgcgcc 300
 cagtacttcg tccga 315

<210> 59
 <211> 287
 <212> DNA
 <213> Zea mays

<400> 59

atcgccccga cggggatgta cgggtgctg aactacctca aggagaagta tgggaatcca 60
 acgatctaca taacggagaa cgggtactcaa cggaattccg tgtttcgcat gaacacgcca 120
 cgccgcatac caaggggaatc gtatttacat cgatcttttt tttatttctt ttctgtgtta 180
 ccaggaatgg accagcctgg aaacttgacc cgagaccagt acctgcgcga cgccacgagg 240
 gtgcgggttct acaggagcta catcggccag ctgaagaagg ccataga 287

<210> 60
 <211> 297
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(297)
 <223> unsure at all n locations

<400> 60

agaatggacc aacctgggtga tgtcagtatt actcaggggtg tgcacgacac agtaagaatc 60
 cgttattaca gagactacat aactgagctc aagaaggcaa tagatgatgg tgccagantc 120
 attgggtact ttgcgtgggc gctgcttgac aacttcgagt ggaggccttg gtacacttcg 180
 cggtttggtc tgggtgtacgt ggactacaag actctgaaga ggtaccccaa ggactcagct 240
 ttctgggttca agcatatgct gtccaagaaa aggagtagag aattgcagac aagagga 297

<210> 61
 <211> 284
 <212> DNA
 <213> Zea mays

<220>
<221> unsure
<222> (1)...(284)
<223> unsure at all n locations

<400> 61

acggaacctt atatcggtgc tcataatttt ctcttggtcac atgctgctgc tgtgtcaaga 60
taccgtaaca agtatcaggc tgctcagaaa ggaaagggtg gaatagttct ggacttcaat 120
tggtatgaag ctctcacaaa ctcaaccgaa gaccaagcag cggtcaaag agcaagggtt 180
tccangttgg ttggtttgct gatcccatata taaatggntt tatccccagn tatgccagnt 240
ntngnaaaag agnggctgcc cattttactc nggagnaagc taat 284

<210> 62
<211> 278
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(278)
<223> unsure at all n locations

<400> 62

ggccaaccaa agggctggat ctaggaagca gctttttcta aaagctgact ttctcacagt 60
gcaaactctga aagcaccctt aaacctgctt ttagtgactt ttcggatgga actgtgaaaa 120
catatatoga ngaactttta acgactttta gtgatttcca ccaaacgggtt tttagctttt 180
taacgactca cagctacagc agctttttcc acagctcaca gccacagca attttttcac 240
agccacagct tcaaccaaac agacctatat anccatgg 278

<210> 63
<211> 269
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(269)
<223> unsure at all n locations

<400> 63

gtgtggtacg agccgctgac caagtccgtg gaggacgagt acgcggtgca cggggctcgg 60
atgttcaccc ttggctggtt cctgcacccc atcacctacg gccactaccc ggagacgatg 120

cagaagatcg tcatggggag gctgcccac ttcaccttcg agcagtctgc catgggtcaaa 180
 ggctcagcgg actacgtcgc catcaaccac tacaccacgt actacgccag caacttcgtc 240
 aacgccacag agaccactta ccgcaangt 269

<210> 64
 <211> 207
 <212> DNA
 <213> Zea mays

<400> 64

gccccaggat cctgggtgat ttcacagett tcgccgactt ctgcttcaag acgtacggcg 60
 accgggtgaa gaactgggtc accatcaacg agccgaggat gatggcccag catgggtacg 120
 gcgacggctt cttccccccc gccagatgca ccggctgcca gttcggcggc aactccgcca 180
 ccgagccgta catcgccggc caccacc 207

<210> 65
 <211> 290
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(290)
 <223> unsure at all n locations

<400> 65

ccaacttcac cttcgagcag tctgccatgg tcaaaggctc agcggactac gtcnccata 60
 caaccactac accacgtact acgccagcaa cttcgtcaac gccacagaga ccaactaccg 120
 caacgattgg aatgcaaaga tttcgtatga gcgagatgng tgtgcccatt ggcaaaaggg 180
 cgtactcgga ctggctttac gtcgntccat gggggctcta caaggctctg atttggaacca 240
 aggngaattc aacagccctg tgatgctcat cggagagaac ggattgaccc 290

<210> 66
 <211> 288
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(288)
 <223> unsure at all n locations

<400> 66
 acagcttctc ttttcattct acacaattta tttatncnga tactccctcc gtetcaaaat 60
 ataattcatt ttagactaaa catatattca ttagttaacc tatgaatata gtttgatatgt 120
 atatctacat tcattatcaa ttattogaat gtggacggag aactatattt tgggacggag 180
 ggagtactac ttggctttat ctgataccat tntttatttt gctttctaca caatttacgn 240
 cagggcanct catacaatta ttcagatntt naactggagt tcagtcat 288

<210> 67
 <211> 294
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(294)
 <223> unsure at all n locations

<400> 67
 cgccgagcng cactccag cgctgagcnc tacgtcgtca cccacaactg catcctggcg 60
 cacgctgccg tncgccgnen tctacaneng cagctaancg tgccgaacag cagggcgtn 120
 tcggnatcaa natctacacc ttctggaact accccttctc cntgcgtncc gcngaagtcc 180
 aggccacgca gngttcgntn nattcatgat cggntggatg gtnaaccctg tngngnang 240
 tgatanctc aagtgatgaa gagganagtc gggtcngttt cccaggttna ctaa 294

<210> 68
 <211> 289
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(289)
 <223> unsure at all n locations

<400> 68
 gatggccaag cacggcgggc ggggccccag catctgggac gccttcatag aggttcccgg 60
 gaccatccct aacaatgcc aagctgacgt gacggtcgac gagtatcatc ggtacaagga 120
 agatgtgaac ataatgaaga acatgggctt tgtgcgtacc gattttcgat ctcttggtcg 180
 aggattttcc nagatgganc tggcaaggta aaccagnang gagtggatta ctacaacagg 240
 ctcanagntt annncncaaa aaannnanng ncngnaaaaa attctctnt 289

<210> 69
 <211> 289
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(289)
 <223> unsure at all n locations

 <400> 69

 catcggtaca angnccatgt ncttcattnt gttcacatct tccttggtacc gatgatactc 60
 gtcgaccgtc acgtcagcgg tggcattggt acaaggaaga tgtgaacata atgaagaaca 120
 tgggctttga tgcgtaccga ttttcgatct cttggctcgag gattttccca gatggaactg 180
 gcaaggtaaa ccaggaagga gncgattact acaacaggct tcatagatta catgctccag 240
 caaggatatcg cgccgtatgc aaatctctac cattatgacc tcccattgg 289

<210> 70
 <211> 278
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(278)
 <223> unsure at all n locations

 <400> 70

 ttcagcttag ctagcaangg gnggatcat ggcnacgctt gtcgctnctg ccatgaagca 60
 acgtgnann ccatnctgtg cnttaggagg cncctagtag ganccaacaa taagagtttc 120
 tcanggcacc acctnnncgt cttcttctnn atagancagc aagcgcaggt gtaagcttag 180
 gtttactana cgatctggna gagtaggcag ctcaanatgg agtccaaatg ttngnnaccc 240
 tcggaaatnn cacaaaggga ntgggtcccc tctgattc 278

<210> 71
 <211> 296
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(296)
 <223> unsure at all n locations

09976054-101501

<400> 71
 gtggaggctt gggtagactt cgcggtttgg cttggtgtac gtggactaca agactctgaa 60
 gncgtacccc aaggattcag ctttctgggt caagcatatg ctgtccaaga aaaggagcta 120
 gagaattgca gacaagagga ccaactggctt cacgtgtcat acaaaagtgc actctgcaaa 180
 tcctcttagt atgtcagatt tagcttaagg aaccgtgcag acaattgagt ctcaaggctc 240
 gacatctcta gcttcgttaa ntgttgcaag gcaataaatt ggtatcttcg aaaaaa 296

<210> 72
 <211> 301
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(301)
 <223> unsure at all n locations

<400> 72
 gcaccatctc atcctttctn angnngctgn ngtnaggacg ataccgcnac aagtatcann 60
 ttgaccagaa ggggaagatt ggaattctnc tggatttcgt gtggnacgaa cctttnagcg 120
 acagcaatnn ggnncaggct ggagnacanc gagcngacg acnttcacct aggctggttt 180
 ccttganncc attgtacatg gncggtancg tactcgatgc aagagatgag aaagacagct 240
 accgttggtc agcgatgaag aagccaggat gntgaaaggc tctatagact atgttggcat 300
 c 301

<210> 73
 <211> 277
 <212> DNA
 <213> Zea mays

<400> 73
 ccctaacaat gccaccgctg acgtgacggt cgacgagtat catcggtaca aggaagatgt 60
 gaacataatg aagaacatgg gctttgatgc gtaccgattt tcgatctott ggtcgaggat 120
 tttcccagat ggaactggca aggtaaacca ggaaggagtg gattactaca acaggctcat 180
 agattacatg ctccagcaag gtatcgcgcc gtatgcaa atctaccata tgactcccat 240
 ggcaactccat gaacagtact gggctggctt agcccaa 277

<210> 74
 <211> 277
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(277)
 <223> unsure at all n locations

 <400> 74

 acaatgctag agtccatnta tctaggtttt atgctgggtga aaaacttttg aagtaaaaga 60
 nagtctgtta gacttgtact tggtcnnttt gtcatgcaac attttcagga agatgtcgac 120
 ctcatgaaaa gtttgaatth tcatgcctac cggtttctna tctcatgggc caggatcttc 180
 ccagatggcg aggaagagt caatccagaa ggtgttgccct attacaacaa tctgataaac 240
 tacctgcttc ggaaaggcat tacaccgtac gccaatc 277

<210> 75
 <211> 311
 <212> DNA
 <213> Zea mays

 <400> 75

 attagcttgg ctagatgagt cactatgaca atgaccgggt ccagtgatgt gctgggtctaa 60
 tcgggatcgt ccggcaagaa aagaaatgaa atcaggtgca ttgaacctga gcttgtcata 120
 taccaccac atctcaaaat ataaacatat attcatcatc catctacgat gcaattgtat 180
 gaacgttata ttagtgggtg ttgttgata tattaccatt agagtagtcc aagtgtgggt 240
 atatatcggg tagttatatc ccaacaacac cccttatatc atcatctata ggcggaaaaa 300
 gcacaacatt t 311

<210> 76
 <211> 337
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(337)
 <223> unsure at all n locations

 <400> 76

 gactggttcg ccgtgcntca nngnacgtgt atggcattgt cnacgtcgac cgcaanaata 60

antgcacgcg ctaacatgaa ggaatctgcn caagtngttg aaacngttca ncgccgcgac 120
 agaagnccag cangangntn cttncgccan cttagaaatc ggggnccnca tgatgtggnn 180
 gcagcccata aacaactggg gtgtngttcg aancgaaaat tntctannnt tnnccgccag 240
 agaagttnag aggnatactc tccagcacgt ggctaataag cattgtgcca attcatctgg 300
 ccttgctcagc ntgcataata ngtgctggtt tcctggt 337

<210> 77
 <211> 341
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(341)
 <223> unsure at all n locations

<400> 77

cggggcgnga gccggagggtg ancnegcccg acttccccga cggcttcgtc ttcggcgtn 60
 ctacctantg cgtaccagnt tgaaggagcg agaaggncag ggaggcaaag gagacagcat 120
 atgggatgta ttacagatg acaagaaca tgtnttagac agaagcaatg gagaaattgc 180
 anctgatcac taccatgat acaaggaaga cattgagctc aggcaagtct aggttttagc 240
 gcatacagat tttctatata ttgggcgcgt atatttctg atggctgggn cnaaatgtca 300
 tgatcaagga gtcgccttct ataatgacct catcattann g 341

<210> 78
 <211> 328
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(328)
 <223> unsure at all n locations

<400> 78

gacttggcag actccttcat gtagcgctg cagttattgt tgcggtcgac gtagacaatg 60
 ccataacgtt cgggtgaagcc ggcgaactgt tgcttgaggc cattccgcga ancacaactc 120
 ttacaatatg catgcgccgg ccgacgacga cgcgcgctgc ctctcgtgag cttctgttca 180
 agtgatgcat gtttcaaggc atccatggat gctttacgta tatgcgtatt aattagccgt 240
 gtcagggaaac cggacagaag ggggtgttgt tttatatatta cgtcttctgg tgatcaaata 300

09975034-101501

aagggaata tatgttgat gtgtnaat

328

<210> 79
 <211> 327
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(327)
 <223> unsure at all n locations

<400> 79

gccaagcacg gcgggcgggg cccagcatc tgggacgcct tcatagaggt tcccgggacc 60
 atccctaaca atgccaccgc tgacgtgacg gtcgacgagt atcatcggta caaggaagat 120
 gtgaacataa tgaagaacat gggctttgat gcgtaccggt ttcgatcntt ggnnaggatt 180
 tcccagatgg actggcaagg tgaaccagg aaggagtgga tataccaacc aggtcataga 240
 tacatgctcc cagcaagtat ccgcgcgat gncaaannct acattatgac tccattgcnn 300
 catgacatac tgggtgntta ccaagat 327

<210> 80
 <211> 295
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(295)
 <223> unsure at all n locations

<400> 80

aaatatatat cgaagaactt ttaacgactt ttagtagntt ccaccaaacg atnttttagct 60
 ttgnaacggc tcacagccta cagcagctng tnttcatagc tcataacaac tttnttcaca 120
 gaccaaacag acccatagat ttgtncgtca catcacgttc gtgtatggct ggccctggcg 180
 tttcatgacc gctcgtttcc tccgccagcg cagtagcgcc gctannnnnn nnnnnnnnnn 240
 nnnctgctg gctcgccact gccagtttcg caccatgttg ttgtacttnt atccg 295

<210> 81
 <211> 274
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(274)
 <223> unsure at all n locations
 <400> 81
 cgcntattgc cacgtcaaga nacgaatggn cctgacggga atccattgg tccttggnntg 60
 ggcaatccga ggnnctacct atatcctgaa ggcctaaagg atctgcttat gatentgaag 120
 aacaaatncg gaaaccacc catctacatc actgagaacg ggatgggtga cgntgaccat 180
 ggngatctac ccatggaagn tgcttgatg accacanaag agtacattac cttcagcgca 240
 catcgcaact cttaaggagc aagagacttg ngag 274

<210> 82
 <211> 249
 <212> DNA
 <213> Zea mays
 <400> 82
 cgcggtggt ggccgcccta gggtagacg acggcaggtt cgcgccggg aggtgcacgg 60
 ggtgcgaggc cgggggggac tcgggcaccg agccctacgt cgtggcgac cacctcatcc 120
 tctcccacgc cgccgccgctc cagaggtacc gccgcaggca ccagccgacg cagaggggca 180
 gggtcgggat cctgctggat ttcgtgtggt acgagcccct cacggcggac tcagccgccg 240
 accgggccc 249

<210> 83
 <211> 287
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(287)
 <223> unsure at all n locations
 <400> 83
 ctttcggaga aaagggtaaa aaactggttn accttcaaca agccgaggtg cgtccctngc 60
 tctgggctac aacaatggct tgcacgcacc ggnaagggtg cccgggtgcc ccgccggang 120
 caactcnacn acggagcctt accttgctgc acaacatcct caaccctttc tcatgcaacc 180
 tgctgtcaag gcnataccgc cnacaagtta tcancttcac caagaaagg gaaaaattgg 240
 aaattcnctt ggaatttcgt ngtgggtaca aaacctttca anccaaa 287

<210> 84
 <211> 394
 <212> DNA
 <213> Zea mays

 <400> 84

 ggaaaaaagg aacgggaaga gagggctctgt ttgggtgaga ggtagatgtg aaaaaagttg 60
 tttgtgaatt gtaaaactgtg gaaaaagttg ttgtgggctg tgagctgtta aaaaactaca 120
 aaatgttttg tggaaactac taaaagtcgt taaaagttct tcgatatatg ttttcacagt 180
 tccatctaaa agcaggtaca taggtgcttt gaggtcaaag tgggttgagt cgggggacgac 240
 gccgttctct caattttttg ggatcacgcc tccaccaaaa actactccgg gttttacctc 300
 gtccctacgt gaatctcatc caaacactat tggaattgtg gccgccctat tccatccctt 360
 ccaatataca tccaaccaa acattaatgt tgtc 394

<210> 85
 <211> 436
 <212> DNA
 <213> Zea mays

 <400> 85

 agaaactaaa gcttcagaag ggtaggcgtt catatcacat agagaatata tgcaatcctt 60
 gacgtagaat gtttggtagt gatttaccoc gatgaagtca atttggttct tcaatagttt 120
 cttctctcct tctgtaaatt ttggcaaatt tggacctaa gatttggcga tctggtgagg 180
 atagtcacca aagaaaaagg gatccaagat cctgttttag catatatcat caagtgaaga 240
 ttcaatcgtg aagacaaaaa gttagttcca atcgtaaaag ttagcatata tgatggaagg 300
 ttactgaatc aattgatacc atggagcatc gaaagacaga gctcggctta ctgccaagtg 360
 gtccctcgtg ataatcctga atgggtcaaa acaacctaag ttgtaatgaa attcctacaa 420
 aagccacctt gcttgg 436

<210> 86
 <211> 414
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(414)
 <223> unsure at all n locations

<400> 86

tgntgcacag cggaggcttg actttcaact tggatggnac ctatatccan tanatnttgg 60

tgattacca gaaagcatgc gtcaacgact gggcattgat nttccaacct tctcaganaa 120

ngataaagag ttcattgagga ncacaattga ttttgttga gtanattcatt atacttcaag 180

antcattgct catctccana atccanncca tgtntatttc taccangtgc aacaaatgga 240

gcgaatataa taatgganta ttggtnaaaa aattggtgaa agggcngcat ctgaatggct 300

tttcanantt ccttggggcc ttcataagtc acttanttan atancgaata agtacantan 360

tccagcaatt tatgttactg aanantggca tggatgaaga agacatcaat ccgc 414

<210> 87

<211> 367

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(367)

<223> unsure at all n locations

<400> 87

ctcantgntc aaaacnagtt gagnagcaat atttgttana tgtggagagg caattngana 60

ggggggngga tgnttaaaan ggtgggaagg cnaacggtct ttgttaacat gcaataaatg 120

tanaaggagc tgtacaccta naggtncgan tacatatttc caatanncaa ctgtagaatt 180

tatattatna angctttana attactncac ataanatnnt attatnnan ncttatgntg 240

atgatnttta caacaancat tacaatttnt acnacacttg tatagggtt gcgtttnact 300

ttatnnatca tgtgccatac ngaacatttt ttatgnataa anntgncnat taaaantact 360

gntacat 367

<210> 88

<211> 335

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(335)

<223> unsure at all n locations

<400> 88

05976054-101501

cataaggata atgacggant ctncnnngac ttnanctggn actatgatct tacncacnna 60
 nggngnggnc caatncatgn acgnnggaga gccnntnact ttcacattna ctgngnagtt 120
 natccattga taaacggaca ctatccacag atnatgcaag atctcaatga acgacaatnt 180
 gccacattc actcctganc atnctaaact ggtanaacgt ctccctagac tacatatgct 240
 atcaacgant acacatccac ctacatcaat nntcaaaatc tgtgatcacc tgactccan 300
 taactactcn nncnattgac acnatcacta tactg 335

<210> 89
 <211> 375
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(375)
 <223> unsure at all n locations
 <400> 89

tagcacgtcg acttctcaga agactactca cctaagctca acgccgacga cgcctatgcc 60
 actgcagaaa tctttggacc tgacgggaat tctattggtc ctctatggg gaaatccatg 120
 gatctacatg taccctaaag gcctaaagga tctcctatg atcnnggaag accaaatccn 180
 gaaaccnct anctatatcc ngagaccgga anccgggacc ttgccccca aagganaatc 240
 cncgatccat gcaananncc ntngnannga ctncnagna ggcttggatt accctccn 300
 ccccatntn aannntnna annatncagt tnancctggg ggccngaccn nccccngcn 360
 cttnacangg ncctt 375

<210> 90
 <211> 406
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(406)
 <223> unsure at all n locations
 <400> 90

ctgagtaacg ccgatgtcgc ggtcgatcag taccaccggt tcgaggagga tatacaggtc 60
 atggcggaca tggggatgga cgcgtaccgc ttttcgattg cctggtcgag gattctgccc 120
 aatggtaccg gccaaagtcaa ccaggccggc gtcgaccant acaacagggt natcgatgca 180

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ctgntatcga aagggattga gccatacntg accntgtacc antggnacnt ccccnaggcc 240
 ntgaaanaca ggtncacgg atggntggac aggcaaata ngtacaantt ccnagtaacnc 300
 cnagacatgc ttttaggnct tttgaganac gcgtgagang ctntgtnaca ccttnaaaag 360
 agccacacan ggtccctgca cagggataaa accccgntct annaaa 406

<210> 91
 <211> 418
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(418)
 <223> unsure at all n locations
 <400> 91

actggctctg aacaataagc cctgaatcat ggtctcattc ctacaacagg tcccgcacgc 60
 atgcaacatg tcctgattct taaaaggaac atgttgatcat ccacacaact acaaattccgt 120
 actatgaaaa tacatttcta attagaccga ggaaaccatg aagatggatg gaagcagaac 180
 acccaaggag accaaaaggg agaccagcaa ggcagggtccg ttcgagggtg ctgaagccga 240
 accagccggc cggccgcctg aaccagtctg cggggtagca gccttggagc ccgtccccga 300
 aagcatgtct ctgaaccagt acgcccagtc cttggggtag cgcttcagcg tcgcgaagtc 360
 gacgtagacg atgccgaact tggacgtgta gcccagacgc cactngaagt tggttcagg 418

<210> 92
 <211> 426
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(426)
 <223> unsure at all n locations
 <400> 92

cggacnnttg ggtttctctt ggcacatgct actgcngttg caagataccg tacgaaatat 60
 cagggctctat atatgcttgg aagttggaac aatggctgct cagaagggtg aggtcgnaat 120
 agtcctggac ttcaactggc acgaggctct tacaactca cctgatgacn aagcatcatc 180
 ccaaagagcc agggacttcn acattngntg gnntgntgat ccattgataa acggacncta 240

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ttnacagata atgcannatc tcgtgnagga gatgctgnct aggttcactn atnaacntgc 300
 taaactgntg aatnctcggn gactacatct tntcaacgag gacncatcta tntacantaa 360
 ngggcagaat cttgtcaact ggnncccaat anctctttcn nattgnnnag ttcaatatgt 420
 tttgga 426

<210> 93
 <211> 500
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(500)
 <223> unsure at all n locations
 <400> 93

cgaaggnaca gtcccttggt tggaactttg ggctgattat gtgcttgtgg ntgtgcgggt 60
 gggttcgatg ggaagtttac cggcttcttc acgggaaact tacggacnca tacgcatttc 120
 gaggggccga aggactcttc cagcactacg aagaataaac atggaaatctt attcactcat 180
 actatggaga atggaactgg ggacgccgac attaaggaga tattctcatt tacggaggac 240
 gttccaaaacg atcataaaag gtcagacccat acttagtggt atactgtcat ctccaaggaa 300
 ctaacagatc cgggactaaa cgcgtaaggc catcctgtcc ggctctcgtc ggataatccc 360
 gaacggcctg ttggtcctat tgaatgccac ggtaccgctc atgctgattg taataacaat 420
 cgtatgtgtc atacgaagga gctcgttaag cggccgaaat agcctaattg tgtgaagaat 480
 ttaataagaa gacctccatt 500

<210> 94
 <211> 501
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(501)
 <223> unsure at all n locations
 <400> 94

aagggggggg aggaaagccc ntggtnggac ctttgggctg nttatgtgct tgttatgtgc 60
 ttgttatgtg cttgnatttg cacagggtcc gtgcccgatg caacgggctg cgcgttacat 120
 ggaatactgc cctcggacaa ataggttgaa gaaaggcttc gggataactaa ttcaggacgg 180

cctccagagt tagcggcctg cggcgatcat tttcctctta cgagactacc ggtcagggaa 240
 tgatcatttc ctccctaagga tgagtagaag gagaagtctg ttggccttca caatacgccg 300
 gggccaaatc atcatattct atggcctctt aaaaatactg acactcnatt aaatcntcta 360
 ttcgcgctcta atatcgatga tgttcatggt agctaagaag ccaatggggt cgatgggaaa 420
 tttaccggct tcctcacggg aaacntacgg actctacgct ttcgaaggtc ccgaaggatc 480
 ttcacgatac gaaagaataa a 501

<210> 95
 <211> 464
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(464)
 <223> unsure at all n locations

<400> 95
 cgtaatctgg tncgaacnaa tgacaaacat tttcgattga cattgaaagc taccaanaag 60
 ggngcacgag ttcagctagg atgggntcgc ggaccgcgtt ttcttcggag actaccnngc 120
 gacgatncgg gctnggggttg gagagaggct gnccaagntc accgnagacn angctgccct 180
 tgtcaagggg gccctggact tcatgggcat aaaccactac accactttct acacgaggca 240
 taactgacac caacatcatc ggacggctgc tgaacnacac tttggcggac accggaacca 300
 tcancctgcc cttcgacaaa aacggngaag cccattggag atcgggctaa ttcgatatgg 360
 ctgtacatcg taccagcgg gatcaggaag ctgatgaact atgtcaagga gcggggccaa 420
 taccacacgg ttacatnac tgaaaatggg atgggccact gcnc 464

<210> 96
 <211> 447
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(447)
 <223> unsure at all n locations

<400> 96
 ctcaagcact agaanagaag tacttnttta ttcttanata agactcataa caagnnggn 60

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<210> 99
<211> 435
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(435)
<223> unsure at all n locations

<400> 99

ccgagctact cgtccgactg gggcggtccaa tattactttc aaaggaatgg cgtgcaaattg 60
ggncngatgg cgcactcaat ntggctttac atcgtcccat cgggcatgta tggagtcgtg 120
aactacctaaggaaaagta ccataatcca atcatcatca tatcggaaaa cggaatggat 180
cagcctggaa acctcacgcg cgaggagtac gtgcacgacg ccgtgaggat cgacttctac 240
aagaactacc tgacggagct aaagagaggg atcgacggcg gcgcgaacgt gatcgggtac 300
ttcgcgtggg ctntcctgga caacttcnag tggctgtcgg ctacacgtcc aagttcggca 360
tcgtctacgt cgacttcgcg acgctgaanc ggtaccccaa ggactcggng tactgggtca 420
aaacatgctt tcggg 435

<210> 100
<211> 314
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(314)
<223> unsure at all n locations

<400> 100

gttcgtgaaa ctacctaaag gaaaagtacc ataatccaat catcatcata tcgganaacg 60
gaatggatca gcctggaaac ctcacgcgcg aggagtacgt gcacgacgcc gtgaggatcg 120
atttctacaa gaactacctg acggagctaa agacagggat cgacggcggc gcgaacgtga 180
tcggctactt cgcgtgggtct ctctggaca acttcgagtg gctgtcgggc tacacgtcca 240
agttcggcat cgtctacgtc gatttcgcgac gctcaacggg accccaagga tcggcggtact 300
ggttcagaga catg 314

<210> 101

<211> 277
 <212> DNA
 <213> Zea mays

 <400> 101

 ggatcagcct ggaaacctca cgcgcgagga gtacgtgcac gacgccgtga ggatcgactt 60
 ctacaagaac tacctgacgg agctaaagag agggatcgac ggcggcgcga acgtgatcgg 120
 ctacttcgcg tgggtctctcc tggacaactt cgagtggctg tcgggctaca cgtccaagtt 180
 cggcatcgtc tacgtcgact tcgcgacgct gaagcgggtac cccaaggact cggcgtactg 240
 gttcagagac atgctttcgg ggacggggctc caaggct 277

<210> 102
 <211> 255
 <212> DNA
 <213> Zea mays

 <400> 102

 gtaccataat ccaatcatca tcatatcgga aaacggaatg gatcagcctg gaaacctcac 60
 gcgcgaggag tacgtgcacg acgccgtgag gatcgatttc tacaagaact acctgacgga 120
 gctaaagaga gggatcgacg gcggcgcgaa cgtgatcggc tacttcgcgt ggtctctcct 180
 ggacaacttc gagtggctgt cgggctacac gtccaagttc ggcatcgtct acgtcgactt 240
 cgcgacgctc aagcg 255

<210> 103
 <211> 274
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(274)
 <223> unsure at all n locations

<400> 103

 gcgcactcaa tttggcttta catcgtccca tcgggcatgt atggagtcgt gaacnaccta 60
 aaggaaaagt accataatcc aatcatcatc atatcggaac acggaatgga tcagcctgga 120
 aacctcacgc gcgaggagta cgtgcacgac gccgtganga tcgatttcta caagaactac 180
 ctgacggagc taaagagagg gatcgacggc ggcgcgaaac tgatcggcta ttcgcgtggg 240
 ctctctggac aattcgagtg gtgtcgggta cacg 274

0996054-101501

<210> 104
 <211> 216
 <212> DNA
 <213> Zea mays

<400> 104

tgcaaattgg acagatggcg cactcaattt ggctttacat cgtcccatcg ggcatgtatg 60
 gagtcgtgaa ctacctaaag gaaaagtacc ataatccaat catcatcata tcggaaaacg 120
 gaatggatca gcctggaaac ctcacgcgcg aggagtagct gcacgacgcc gtgaggatcg 180
 atttctacaa gaactacctg acggagctaa agagag 216

<210> 105
 <211> 274
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(274)
 <223> unsure at all n locations

<400> 105

gatcaatcaa tatactacat actacattgc agatcaacaa actcctccgc ngggggnacc 60
 gagctactcg tccgactggg gcgtccaata ttactttcaa aggaatggcg tgcnaattgg 120
 acagatggcg cactcaattt ggctttacat cgtcccatcg ggcatgtatg gagtcgtgaa 180
 ctacctaaag gaaaagtacc ataatccaat catcatcatn tcggaanacg gaatggatca 240
 gcctggaaac ctcacgcgcg aggagtagct gcac 274

<210> 106
 <211> 254
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(254)
 <223> unsure at all n locations

<400> 106

gatcaatcaa tatactacat actacattgc agatcaacaa actcctccgc agggaccacc 60
 gagctactcg tccgactggg gcgtccaata ttactttcaa aggaatggcg tgcaaatngg 120
 acatatggng cacncaattt ggctttacat cgtcccatcg ggcatgtatg gagtcgtgaa 180

ctacctaaag gaaaagtacc ataatccaat catcatcana ncnggaaagg gtatggntcn 240
ccnctggaa acct 254

<210> 107
<211> 189
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(189)
<223> unsure at all n locations

<400> 107

gggaccaccg agctacnacg tccgacncng ggcgtccaat attactttca aaggaatggc 60
gtgcaaattg gacagatggc gcacttcaat ttggctttac atcgtcccat cgggcatgta 120
tggagtcgtg aacncaccta aaggnaaagt accataatcc aatcatcatc atatcgga 180
acggaatgg 189

<210> 108
<211> 353
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(353)
<223> unsure at all n locations

<400> 108

cggaaaccca cccatctaca tcaactgagaa cgggatgggt gacgttgacc atggcgatct 60
acccatggaa gttgccttgg atgaccacaa aagagtacat tacctccagc gccacatcgc 120
aactcttaag gagtcaagag acttgggagc gaatgtgcag ggctacttcg cttgggtctct 180
attgacaact tcgaatgggt ctccggctac acggaacgtt acggcatcgt ctatgttgac 240
cgcaacgatg gctgcaaacg ctacatgaag cggtcagcca agtggttcaa agagttcaat 300
gctgcgaaga aagcggctgc caagaagatt cttacgccag cttagaatcg ntg 353

<210> 109
<211> 326
<212> DNA
<213> Zea mays

<220>
 <221> unsure
 <222> (1)...(326)
 <223> unsure at all n locations

<400> 109

aaccacacca tctacatcac tgagaacggg atgggtgacg ttgaccatgg cgatctaccc 60
 atggaagttg ccttgatga ccacaaaaga gtacattacc tccagcgnca catcgcaact 120
 cttaaggagt caagagactt gggagcgaat gtgcagggt acttcgcttg gnctctattg 180
 gacaacttcg aatggttctc cggctacacg gaacggttacg gcatcgtcta tgttgaccgc 240
 aacgatggct gcaaacgcta catgaagcgg tcagccaagt ggttcaaaga gttcangctg 300
 cgaagaaagc ggctgccaga agntct 326

<210> 110
 <211> 256
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(256)
 <223> unsure at all n locations

<400> 110

catgnatnct acctatatcc tgaaggccta aagganctgc ttatnancat gaagaacaaa 60
 tacggaaacc caccatcta catcactgag aacgggatgg gtgacgttga ccatggcgat 120
 ctacccatgg aagttgcctt ggatgaccac aaaagagtac attacctcca gcgccacatc 180
 gcaactctta aggagtcaag agacttggga gcgaatgtgc agggctactt cgcttggtct 240
 ctattggaca acttcg 256

<210> 111
 <211> 278
 <212> DNA
 <213> Zea mays

<400> 111

atatggctcc actcgtcgct actgccacga tgaaccacgc tgtggcccat ctgctaggac 60
 ccaatcatga gagtttctca cggcaccatc tttcttctc gctgcagcaa aacagtaagc 120
 gaaggtgtaa tcttagcttc aggccacgag ctgctgagag tcagaatgga agccaaacgc 180
 tgagcccctc ggaagtcctt aaaagagact ggttcccctc tgacttcac tttggtgccg 240

ccacttcagc gtaccaaatt gaaggtggat ggaacgag 278

<210> 112
<211> 274
<212> DNA
<213> Zea mays

<400> 112

atatggctcc actcgctcgct actgccacga tgaaccacgc tgtggcccat ctgctaggac 60
ccaatcatga gagttttctca cggcaccatc tttcttcctc gctgcagcaa aacagtaagc 120
gaaggtgtaa tcttagcttc aggccacgag ctgctgagag tcagaatgga agccaaacgc 180
tgagccccctc ggaagtcctt aaaagagact ggttccccctc tgacttcac tttggtgccg 240
ccacttcagc gtaccaaatt gaaggtggat ggaa 274

<210> 113
<211> 232
<212> DNA
<213> Zea mays

<400> 113

atatggctcc actcgctcgct actgccacga tgaaccacgc tgtggcccat ctgctaggac 60
ccaatcatga gagttttctca cggcaccatc tttcttcctc gctgcagcaa aacagtaagc 120
gaaggtgtaa tcttagcttc aggccacgag ctgctgagag tcagaatgga agccaaacgc 180
tgagccccctc ggaagtcctt aaaagagact ggttccccctc tgacttcac tt 232

<210> 114
<211> 233
<212> DNA
<213> Zea mays

<400> 114

atatggctcc actcgctcgct actgccacga tgaaccacgc tgtggcccat ctgctaggac 60
ccaatcatga gagttttctca cggcaccatc tttcttcctc gctgcagcaa aacagtaagc 120
gaaggtgtaa tcttagcttc aggccacgag ctgctgagag tcagaatgga agccaaacgc 180
tgaggggcct cggaagtcct taaaagagac tggttccccct ctgacttcac ctt 233

<210> 115
<211> 162
<212> DNA

05976054.101501

<213> Zea mays

<220>

<221> unsure

<222> (1)...(162)

<223> unsure at all n locations

<400> 115

gagagagaaa aaatatggct ccactcgctg ctactgccac gatgaaccac gctgtggccc 60

atctgctagg acccaatcat gagagtttct cacggcacca tctttcttcc tcgctgcagc 120

aaaacagtaa gcgaagggtgt aatcttagct tcaggccang ng 162

<210> 116

<211> 233

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(233)

<223> unsure at all n locations

<400> 116

taccaaggct ggtagggccc aaaaattgtg gacatatttg ctgactatgc tgatttttgt 60

ttcaagactt ttggcaatcg agtcaagaac tggttcacat taaatgagcc aaggatagta 120

gcattccttg gttatgataa agggcttaac cccctaacc ggtgcacaca atgcactgcc 180

ggtgggaact catcgacaga accttacatt gttgttcata acattcncct atc 233

<210> 117

<211> 349

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(349)

<223> unsure at all n locations

<400> 117

ggaagatgtt gatctcatga gaagcctaaa ttngatgca taccggtttt caatctcctg 60

gtccaggatc ttcnccagat ggcaaggga naattaatna cgaaggagta caatatnaca 120

acaatcttat agactacatg gttaagcaag gccttactcc ttacgccaac cttaccact 180

atgatcttcc gcttgcgctt cagaagaagt accaaggctg gttaggccca aaaattgtgg 240

acatatattgc tgactatgct gatttttgggt tcaagacttt tggcatcgag tcaaganctg 300

gttcacatna attgagccaa ggatagtagc attccttggt tatgataac 349

<210> 118

<211> 203

<212> DNA

<213> Zea mays

<400> 118

taaccactat gatcttccgc ttgcgcttca gaagaagtac caaggctggt taggccc aaa 60

aattgtggac atatttgctg actatgctga tttttgtttc aagacttttg gcaatcgagt 120

caagaactgg ttcacattaa atgagccaag gatagtagca ttccttggtt atgataaagg 180

gcttaacccc cctaaccggt gca 203

<210> 119

<211> 303

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(303)

<223> unsure at all n locations

<400> 119

gattactaca acaggctcat agattacatg ctccagcaag gtatcgcgcc gtatgcaaat 60

ctctaccatt atgacctccc attggcactc catgaacagt acctgggctg gcttagccca 120

aagattgtgg aggcgtttgc agactacgcc gagttctgcn tccacgcggt cggagacagg 180

gtgaagaact ggtttacctt caacgagccg aggtgcgtcg ctgntctggg ctacgaacat 240

ggcttgcacg caccgggaag gtgttccggt gccccgccgg agcaactcca ccacggnanc 300

gta 303

<210> 120

<211> 220

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(220)

<223> unsure at all n locations

<400> 120

09976054-101501

ggattactac aacagggtca tagattacat gctccagcaa ggtatcgcg cgtatgcaaa 60
tctctaccat tatgacctcc cattggcact ccatgaacag tacctgggct ggcttagccc 120
aaagattgtg gaggcgtttg cagactacgc cgagttctgc ttcnacgggt cggagacagg 180
gtgaagaact ggtttacctt caacgagccg aggtgcgctcg 220

<210> 121
<211> 355
<212> DNA
<213> Zea mays

<400> 121

gacggatcgg actcaccttg cttggttggt ggtacgagcc tgggacgcag actcccgacg 60
atgtcgcggc agccgcacgg atgaacgact tccacatcgg atggttcatg catectatgg 120
tgttcgggga ctaccctccg gtgatgagga ggaacgtcgg gtccaggctg cggaccttca 180
cggacgagga ggcggcgcgga gtgaggggggt ctttcgactt cgtcggattc aaccactaca 240
tcgtcgtcta cgtcaaggct gatcttggcc gcctagacga ccaagtgcga gactacatgg 300
gcgatgcagc cgtgaatatg accatgccgt tctcaatcag caacagttcc gttcg 355

<210> 122
<211> 282
<212> DNA
<213> Zea mays

<400> 122

caagttcggc atcgtctacg tggacttcaa cacgctcgaa cgccaccga aggcgtcggc 60
ctactgggtc agggacatgc ttcagaagca ttgagatctc cagagccgag cctgagcacg 120
gaaggtacca ttttgttcag cttcgcttag tgtttgggat ggcccaatgg ttcaaaccg 180
gctcagtgcc tggctaccaa aatgggaaca aaggacagct accccgatca attgtgatgt 240
tgtgtgtttg tgggtatgtt ctctctggag tttgagctgt gg 282

<210> 123
<211> 234
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1) ... (234)
<223> unsure at all n locations

09976054.101501

05976054.101501

<400> 123

ggacttcaac acgctcgaac gccacccgaa ggcgtcggcc tactggttca gggacatgct 60
tcagaagcat tgagatctcc aganccgagc ctgagcacgg aaggtaccat tttgttcagc 120
ttcgcctagt gtttgggatg gcccaatggt tcaaattccg ctcagtgcct ggctacccaa 180
atgggaacaa aggacagcta ccccgatcaa ttgtgatgtt gtgtgtttgt ggg 234

<210> 124

<211> 314

<212> DNA

<213> Zea mays

<400> 124

cactgggaca cgcctcaagc actggtagac aagtacggtg gctttttaga tcggaggatt 60
gtaaaagatt acacagattt cgctatggtg tgcttcgaga acttcggtga caaagtga 120
aattggttga catttaacga gcccacaaacg ttttcttctt tttcctatgg aatcggttg 180
tgtgccccag ggcggtgctc cccaggacaa aaatgtgcta acccaattgg aaactcactt 240
atcgagccat acattgttgg tcacaacctt ctctagccc atgctgaggc tgttgatctt 300
tacaacaagc atta 314

<210> 125

<211> 261

<212> DNA

<213> Zea mays

<400> 125

attgtaaaag attacacaga cttcgctaag gtgtgctttg agaacttcgg tgataaagta 60
aacaattggt tgacctttaa tgagcccaaa acgttttctt ctttttcata cggaaccggg 120
ctatgcgccc cagggcggtg caccacagga caaaaatgtg ctaacccaat tggaaactcg 180
ctcactgagc catacactgt tggccataac cttctccgag cccacgctga ggctgttgat 240
ctttacaaca agtattacaa g 261

<210> 126

<211> 222

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(222)
 <223> unsure at all n locations
 <400> 126
 attggttgan ctttaatgag ccccaaacgt tttcttcttt ttcatacggg ancggttat 60
 gcgncccagg gcggtgcacc ccaggacaaa aatgtgctaa ccnaattgga aactngtca 120
 ctgagccata cactgttggc cataaccttc nccgagccca cgctgaggct gttgatcttt 180
 acaaaagtat tacanggggtg agaattggann tanggctnnn tt 222

<210> 127
 <211> 382
 <212> DNA
 <213> Zea mays
 <400> 127

gaggagagga gaggagagac tagaccgct agctgaggcc gggcggcgcg ctggacacga 60
 acatgatggg gagaaaggcg ctcggtgtg ctctcttct cctcctcttg gccgccgccg 120
 tcgtccggc cgagctcagc gtcggggcg cggtgcctc gggcgcggtc acccgggccg 180
 acttccccgc ggggttcgtc ttcggcgctc gctcctccgc gtaccaggtc gaaggtgcag 240
 ttgcagagga cggaaggaag cctagcatct gggacacatt cacacatgaa ggctattccc 300
 ttgacaacgc cacaggcgat gtaactgcgg atcaagtatc ataagtacaa ggacgacgta 360
 aaagcttctg catgaagaaa tt 382

<210> 128
 <211> 412
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(412)
 <223> unsure at all n locations
 <400> 128

ggagagacta gaccgctag ctgaggccgg gggcgcgct ggacacgaac atgatgggga 60
 gaaaggcgct cggctgtgct cctcttctcc tctcttggc cgccgccgtc gctccggccg 120
 agctcagcgt cggggcgcg gctgcctcgg gcgcggtcac ccgggcccgc ttcccccgcg 180
 ggttcgtctt cggcgctggc tctccgcgt accaggtcga aggtgcagtt gcagaggacg 240
 gaaggaagcc tagcatctgg gacacattca cacatgaagg ctattccctt gacaacgccca 300

caggcgatgt aaactgcgga tcagtatcat aagtacaagg accaacgtaa aagctttctt 360
gcatagaagaa tgggtggtcg aatgccctac ccggatgtcg aattggnccc cc 412

<210> 129
<211> 306
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(306)
<223> unsure at all n locations

<400> 129

gagactagac ccgctagctg angccgggcg gcgcgctgga cacgaacatg atggggagaa 60
aggcgctcgg ctgtgtctct cttctcctcc tcttgnccgc cgccgtcgtt ccggccgagc 120
tcagcgctcg gggcgggcggc tgccctgggc gcggtcaccc gggccgactt ccccgcgggg 180
ttcgtcttcg gcgtcggggtc ctccgggtac cagtcgaagg tgcngttgca gaggacggaa 240
ggaagcctag catctgggac acnttcacac atgaaggcta ttcccttgac aacgccacag 300
gcgntg 306

<210> 130
<211> 318
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(318)
<223> unsure at all n locations

<400> 130

gnanatgaga ngaganacta gacccgctag ctgangccgg gcggcgcgct ggacacgaac 60
atgatgggga gaanngcgct cggctgtgct cctcttctcc tcctcttggc cgccnccgtc 120
gctccggccg anctcagcgt cgggncggcg gctgcctcgg gcgcgggtcac ccgggccgac 180
ttcccnccng ggttcgtctt cngcgctggc tcctccgct accaggtcga aggtgcagtt 240
gcagaggacg gaaggaagcc tagcatcttg nacacattca cacatgaang ctattcncca 300
gacaacgcta natggatg 318

<210> 131

09976054-101501

<211> 409
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(409)
<223> unsure at all n locations

<400> 131

ggaccctggg acatggaacc tgacgccagt cagctaccag gatgattggc atgttggttt 60
tgtctacgaa cgaaatggag ttcctattgg cgctcacnca aactcctact ggctgtacat 120
tgtgccgtgg ggcacaaaca aggctgtcag ctatgtcaag gaaacttaca aaaatcctac 180
aatgatcctt gctgaaaacg gaatggacca acctgggtgat gtcagtatta ctcagggtgt 240
gcatgacaca gtaagaatcc gttattacag agactacatn actgagctca agaaagcaat 300
agatgatggt gccagagtca ttgggtactt tgcgtggctg ctgcttgaca acttcgantg 360
gaagcttggg tacacctcnc cggtttgccc ttngntacct tgaacaaaa 409

<210> 132
<211> 283
<212> DNA
<213> Zea mays

<400> 132

gccagggatg gtgaaaggct ctatagacta tgttggcatc aaccactaca cttctttcta 60
catgaaggac cctgggacat ggaacctgac gccagtcagc taccaggatg attggcatgt 120
tggttttgtc tacgaacgaa atggagttcc attggcgctc acgcaaactc ctactggctg 180
tacattgtgc cgtggggcat caacaaggct gtcagctatg tcaaggaaat tacaaaaatc 240
ctacaatgat cctgctgaaa cggaatggac caacctgggtg atg 283

<210> 133
<211> 189
<212> DNA
<213> Zea mays

<400> 133

ggcatcaacc actacacttc tttctacatg aaggaccctg ggacatggat cctgacacca 60
gtcagctacc aggatgattg gcatgttggg tttgtctacg aacgaaatgg agttcctatt 120
ggcgctcacg caaactccta ctggctgtac attgtgccgt ggggcatcaa caaggctgtc 180

agctatgtc 189

<210> 134
<211> 158
<212> DNA
<213> Zea mays

<400> 134

ggcatgttg ttttgtctac gaacgaaatg gagttcctat tggcgctcac gcaaactcct 60

actggctgta cattgtgccg tggggcatca acaaggctgt cagctatgtc aaggaaactt 120

acaaaaatcc tacaatgatc cttgctgaaa acggaatg 158

<210> 135
<211> 262
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(262)
<223> unsure at all n locations

<400> 135

gtcagctacc aggatgattg gcatgttggt ttggccacgg aacggaaaat ggagttccta 60

attggcgctc acggcaacnc cctatggctg taacattgtg ccgtggggca tcaacaaagg 120

ctgtcagcta atgtcnagga aactttacca aaaatcctac aatgatcctt gctgaaaacg 180

gaatggacca actggtgatg tcagtattac tcagggtgtg catgacacag taagaatcgg 240

tattacagag actacataac tg 262

<210> 136
<211> 476
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(476)
<223> unsure at all n locations

<400> 136

acgcgtacag attctccatc tcttgggtcca gaatactgcc gaagggaaacg ctccaaggag 60

ggattaatca ggccggcatc aagtactaca aaaagctcat caacttattg atagagaacg 120

gaatagagcc atttgtaaca atttttcatt gggacgtccc tcaagcactg gaagacaagt 180

0996054.10504

acggtggcctt tttaggcgac aggattgtaa aggattacac agacttcgct aaggtgtgct 240
 ttgagaactt cggtgacaag gtgaagaatt gggtgacctt taacgagcca cagacattta 300
 caaccttttc gtacggaacg ggagtttttg cccctggacg gtgctcacca ggagaaaaat 360
 gtgctcagcc tattgctaac tctctcaccg aaccatacat tgggtggccac aacatncttn 420
 gagccccacg tatgactggt gacctntaca acaagaatta caagggttca gacggc 476

<210> 137
 <211> 486
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(486)
 <223> unsure at all n locations

<400> 137

cgctcgaagg aggtattaat caggccggca tcaagtacta caaaaagctc atcaacntat 60
 tgatagagaa cggaatagag ccatttgtaa caatttttca ttgggaccgt ccctcaagca 120
 ctggaagaca agtacggtgg ctttttaggc gacaggattg taaaggatta cacagacttc 180
 gctaagggtgt gctttgagaa cttcggtgac aagggtgaaga attggttgac ctttaacgag 240
 ccacagacat ttacaacctt ttcgtacgga acgggagttt ttgcccctgg acggtgctca 300
 ccaggagaaa aatgtgctca gctattgct aactcactca ccgaaccata cattgctggc 360
 cacaacatcc ttcgagcca cgctatgact gttgacctct acaacaagaa ttacaagggt 420
 cagacggggc gcattgggct tgcgttgac gtaatgggtc gcggtgccat atggaaatca 480
 tttctt 486

<210> 138
 <211> 442
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(442)
 <223> unsure at all n locations

<400> 138

acgcgtacag attctccatc tcttggtcca gaatactgcc gaagggaacg ctcgaaggag 60

09976054-101501

gtattaatca ggccggcatc aagtactaca aaaagctcat caacttattg atagagaacg 120
 gaatagagcc atttgtaaca atttttcatt gggacgtccc tcaagcactg gaagacaagt 180
 acggtggcctt tttaggcgac aggattgtaa aggattacac agacttcgct aaggtgtgct 240
 ttgagaactt cggtgacaag gtgaagaatt ggttgacctt taacgagcca cagacattta 300
 caaccttttc gtacggaacg ggagtttttg cccctggacg gtgctcacca ggagaaaaat 360
 gtgctcagcc tattgctaac tcaactaccg aaccatacat tgctggccac aacattcttn 420
 gagcccacct tttgactggg ga 442

<210> 139
 <211> 410
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(410)
 <223> unsure at all n locations
 <400> 139

tgccgatgtc agattgctaa aggaaatagg catgggcnng tacagattct cctcnnttg 60
 gtccagaata ctgccgaagg gaacgctcga aggaggtatt aatcaggccg gcatcaagta 120
 ctacaaaaag ctcatacaact tattgataga gaacggaata gagccatttg taacaatttt 180
 tcattgggac gtccctcaag cactggaaga caagtacggt ggcttttttag gcgacaggat 240
 tgtaaaggat tacacagact tcgctaaggt gtgctttgag aacttcggtg acaagggtgaa 300
 gaattgggtg acctttaacg agccacagac atttacaacc ttttcgtacc ggaacgggag 360
 tttttgcccc tggacagtgc tnaccaggag aaaaaatgtg ctcagnctat 410

<210> 140
 <211> 439
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(439)
 <223> unsure at all n locations
 <400> 140

ctcaagcact ggaagacaag tacggtggct ttttaggcga caggattgta aaggattaca 60
 cagacttcgc taagggtgtgc tttgagaact tcggtgacaa ggtgaagaat tggttgacct 120

ttaacgagcc acagacattt acaacctttt cgtacggaac gggagttttt gccctggac 180
 ggtgctcacc aggagaaaaa tgtgctcagc ctattgctaa ctactcacc gaaccataca 240
 ttgctggcca caacatcctt cgagcccacg ctatgactgt tgacctctac aacaagaatt 300
 acanggggtac agacggncgg cattgggctt gcgtttgacg taatgggtcg cgtgccatat 360
 ggaaatacat ttctcgatga acaggcccag gaaaggctct tngatcaaaa cctangatgg 420
 ttctttggan cctgtggtc 439

<210> 141
 <211> 326
 <212> DNA
 <213> Zea mays

<400> 141

gattactgaa ggaaataggg atggactcct ataggttctc catctcttgg tccagaatac 60
 tgccgaatgg cacactcgaa ggaggtatta atccatatgg catcaagtac taaaaaatc 120
 tcatcaactt gttggtagag aacggcatag agccatttgt gacaattttc cactgggaca 180
 cgctcaagc actggtagac aagtatgggtg gctttttaga tgagaggatt gtaaaagatt 240
 acacagactt cgctaagggtg tgctttgaga acttcggtga taaagtaaac aattgggtga 300
 cctttaatga gcccacaaacg ttttct 326

<210> 142
 <211> 414
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(414)
 <223> unsure at all n locations

<400> 142

gtaaaggatt acacagactt cgctaagggtg tgctttgaga acttcggtga caagggtgng 60
 aattgggtga cctttaacga gccacagaca tttaaacct ttctgtacgg aacgggagtt 120
 tttgccctg gacggtgctc accaggagaa aaatgtgctc agcctattgc taactcactn 180
 accgaaccat acattgctgg ccacaacatt ctctgagccc acgctatgac tgttgacctt 240
 tacaacaaga attacaaggg tacanaacgn ccattggggc ttgcgtttga cctaattgggt 300
 ccggggcata ntggaaatac atttntngat taanaaggcc angaaagggg ccttgantca 360

aaaacctaga ttgttcnttg aacctntggc cctggngant tacccttttt tatt 414

<210> 143

<211> 420

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(420)

<223> unsure at all n locations

<400> 143

aggacccagg gctctnatng atagagancn gaatntaagc catttgtaac aattcancag 60

ggggnggggc catcaancac tggaagacaa gtacggnggc tttttaagcg acaggatacg 120

taaaggatta cacagacttc gctaagggtg gctttgagaa ctncggtgac aaggngaaga 180

attggttgac ctttaacgag ccacagacat ttacaacctt tncgtacgga acgggagttt 240

ttgcccctgg acggtgctca ccaggagaaa aatgtgctca ncctattgct aactcactca 300

ccgaaccata cattgctggc cacaacatcc ttcgagccca cncatgact gttgacctnt 360

acaacaagaa ttacaagggt tcanacgggc gcattgggct tgcgtttgac ntaatgggtc 420

<210> 144

<211> 419

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(419)

<223> unsure at all n locations

<400> 144

aggacgcgtg ggcttatnga tagagaacgg aatagagcca tttgtaacaa tttttcatgg 60

ggancgtccn tcaagcactg gaagacaagt acggtggcct tttangcgac aggattgtaa 120

aggattacac agacttcgct aangtgtgct ttgagaactt cggtgacaag gtgaagaatt 180

ggttgacctt taacgagcca cagacattta caaccttttc gtacggaacg ggagtttttg 240

cccctggacg gtgctcacca ggagaaaaat gtgctcanc cttattgtaac tcaactcacg 300

aaccatacat tgctggccac aacatccttc gagcccacgc tatgactggg gaccttntac 360

aacaagaatt acaaggggta cagacgggcg gattgggctt gcgtttggac gtaatgggt 419

00976034.101501

<210> 145
 <211> 262
 <212> DNA
 <213> Zea mays

<400> 145

gtccagaata ctgccgaagg gaacgctcga aggaggtatt aatcaggccg gcatcaagta 60
 ctacaaaaag ctcatcaact tattgataga gaacggaata gagccatttg taacaatttt 120
 tcattgggac gtcctcaag cactggaaga caagtacggt ggcttttttag gcgacaggat 180
 tgtaaaggat tacacagact tcgctaaggt gtgctttgag aacttcggtg acaaggtgaa 240
 gaattgggtg acctttaacg ag 262

<210> 146
 <211> 188
 <212> DNA
 <213> Zea mays

<400> 146

cagacttcgc taagggtgtgc tttgagaact tcggtgacaa ggtgaagaat tggttgacct 60
 ttaacgagcc acagacattt acaacctttt cgtacggaac gggagttttt gccctggac 120
 ggtgctcacc aggagaaaaa tgtgctcagc ctattgctaa ctactcacc gaaccataca 180
 ttgtgggc 188

<210> 147
 <211> 442
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(442)
 <223> unsure at all n locations

<400> 147

gggaaatcca tggatctaca tgtaccctaa aggcctaaag gatctcctta tgatcatgaa 60
 gaacaaatac ggaacccgc ctatctatat caccgagaac ggaatcgggg acgttgacac 120
 aaaggataat cctctatcca tgcaagatgc gttggacgac tacaagaggc tagattacct 180
 ccagcgccac atctcagtt tcaaagaatc aatagacttg gggcgggacg tgcgcggcc 240
 cttcacatgg tctctgttgg acaacttcga gtggtctagt ggctacaccg agcggttacg 300

catcatctac gtcgaccgtg acgacggcta caggcgctac ctgaagcgct cagctaagtg 360
gctgcgagag ttcaacggag ctgccaaaaa ggctgaaaag aangntctta cgccagctta 420
gaatgtaggt gggggtgnna gt 442

<210> 148
<211> 450
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(450)
<223> unsure at all n locations

<400> 148

agcacgtcga cttctcagaa gactactcac ntaagctcan nccgacgac gcctatgcc 60
ctgggggaaa ttngnggacc tgacgggaat tctattggc ctctatggg aaatccatgg 120
atctacatgt accctaaagg cctaaaggat ctcttatga tcatgaagaa caaatacgg 180
aaccgccta tctatatnac cgagaacgga atcggggacg ttgacacaaa ggataatcct 240
ctatccatgc aagatgcgtt ggacgactac aagaggctng attacctnca tcgccacatn 300
tcaattatca aagaatcaat agacttgggg gcgacggtc gcggcacttt acatggtctn 360
tgttggacaa ctttnagtgg tctantggct acaccgagcc gttacggnat tatntacgn 420
gacngggacn accggtaca ngcctanctt 450

<210> 149
<211> 444
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(444)
<223> unsure at all n locations

<400> 149

ggataaatta ctatacctca aggttctcta agcacgtcga cttctcagaa gactactgac 60
ctaagctcaa cgccgacgac gcctatgcc ctgcagaaat ctttggacct gacgggaatt 120
ctattggtcc tctatggga aatccatgga tctacatgta ccctaaaggc ctaaaggatc 180
tccttatgat catgaagaac aaatacggaa acccgctat ctatatcacc gagaacggaa 240
tcggggacgt tgacacaaag gataatcctc tatccatgca agatgcgttg gacgactaca 300

agaggctaga ttacctcagc gccacatctc aagttatcaa agaatacaata gacttggggg 360
ccggacgtgc gccgncactt nacatggntt ttgttgaca acttcgagtg ggctaattgn 420
taccgagcg gttccgntt attt 444

<210> 150
<211> 435
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(435)
<223> unsure at all n locations

<400> 150

gcgggttcct atgacatatt ggggataaat tactatacct caaggntctc taagcacggn 60
ggncttctna naagactact cacctaaagc tcaacgccga cgacgcctat gccactgcag 120
aaatctttgg acctgacggg aattctattg ggtcctcta tgggaaatcc atgggatcta 180
catgtaccct aaaggcctaa aggatctcct tatgatcatg aagaacaaat acggaaaccc 240
gcctatctat atcaccgaga acggaatcgg ggacgttgac acaaaggata atcctctatc 300
catgcaagat gccttgacc aactncaaga ggctagatta ccttcagcgc cacatctnaa 360
ttatcaaaga atcaatagac ttgggggccg gacgttcgcc gncacttnac atggntcttg 420
ntggacaact tcnag 435

<210> 151
<211> 230
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(230)
<223> unsure at all n locations

<400> 151

caacgccgac gacgcctatn cactgcaga aatctttgga cctgacggga attctattgg 60
tctcctatg ggaaatccat ggtctacat gtaccctaaa ggctaaagg atcttcttat 120
gatcatgaag aacaaatacg gaaacccgcc tatctatatc accgagaacg gaatcgggga 180
cgttgacaca aaggacaatc ctctatccat gcaagatgcy ttggaggact 230

0975054-101501

<210> 152
<211> 246
<212> DNA
<213> Zea mays

<400> 152

cgcttatcta tatcaccgag aacggaatcg gggacgttga caciaaggac aatcctctat 60
ccatgcaaga tgcgttggag gactacaaga ggctagatta cctccagcgc cacatctcag 120
ttattaaaga atcaatagac ttgggggagg acgtgcgcgg ccacttcaca tggctctctgt 180
tggacaactt cgagtgggtct agtgggtaca ccgagcggtta cggcatcatc tacgtcgacc 240
gtgacg 246

<210> 153
<211> 320
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(320)
<223> unsure at all n locations

<400> 153

cccggncga cntccccgag gggttcgtct tngcgctgg cncnccccgc gtaccagnnc 60
cgaagggtgca gttgcagagg acggaaggaa gcctagcatc tgggacacat tcacacatga 120
aggctatncc cttgacaacn ccacaggcga tgtaacnncg gatcagtatc ataagtacaa 180
ggacgacgta aagcttctgc atgagatngg tgtcgatnnc ctaccggatg tcgattncct 240
ggcctcgact tatcccagat ggtcggggag ccgtgaatcc gaagngctgg agtatnaca 300
caatctcata gatgagtcct 320

<210> 154
<211> 301
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(301)
<223> unsure at all n locations

<400> 154

acgacaaaag caaagcaaag cagcncaaaa aagtttagcc agctagcaag acatggctcc 60

acttggtgct gctgccacga atgcacactg cccatagaag ccacatagta ggacccaaca 120
atgagaatTTt tccaaggcac caaccttggt catcacaaaa cagaaacaag agactcaggc 180
ttaggtcacg agcacaaagg ataagcagtc agctgcttgc aagccgaaag cttatggccc 240
tgggcaaatn cctaanaagg ggatggTTTT cctcctagct tcattcttgt ggcgggccacg 300
c 301

<210> 155
<211> 266
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(266)
<223> unsure at all n locations

<400> 155
angcanagcg ttcaggatan acatngetgc cacctttgcc ttcactnctc tccngctacn 60
ggctctgcgc cagagcgcgg cncntgttcn tcggcttcac aaggagcgag tncctgaag 120
ntttcgtcnt cggatccgcn acnncggctt atcagtatga nggtgctgtn ggtgaggatg 180
gtaggagccc aagcatctgg gacaccttca ctcacgcagg ganaatnccg gacaaaagca 240
atggtgatgt agccgcccac nggtac 266

<210> 156
<211> 238
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(238)
<223> unsure at all n locations

<400> 156
gaacgctggg tcgaccanc ggcgtccgct tctgcttgc aatcggggtt tcagcttagt 60
ttggaggggtg tangagttga ttcagctcgg tttggatgnc actaagattg aaggagcgag 120
aagggagggga ggcaaaggag acagcatatg ggatgtattt acagatgaca aagaacatgt 180
cttagacaga agcaatggag aaattgcagt tgatcactac catcgataca aggaagac 238

<210> 157

09976054-101501

<211> 233
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(233)
 <223> unsure at all n locations

<400> 157

cagacgcgtg ggtcgaccan cgcgtccgct tctgcttgct aatcgggggt tcagcttagt 60
 ttggaggggtg tggagttgat tcagctcggg ttggatggac taagattgaa ggagcgagaa 120
 gggagggagg caaaggagac agcatatggg atgtatttac agatgacaaa gaacatgtct 180
 tagacagaag caatggataa attgcagttg atcactacca tcgatacaag gaa 233

<210> 158
 <211> 462
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(462)
 <223> unsure at all n locations

<400> 158

caaggagaca cctctaccca tggaggatgc cttaaatac tacaaaaggc tagattacat 60
 cnagcgccac atcgctactc ttaaggaatc aatagacttg ggatcaaatg tgcaaggcta 120
 cttegttggt tctctgctgg acaactttga atgggtcgcc ggcttcaccg aacgttatgg 180
 cattgtctac gtcgaccgca acaataactg cacgcgctac atgaaggagt ctgccaagtg 240
 gttgaaacag ttcaacgccg cgaagaagcc cagcaagaag attcttacgc cagcttagaa 300
 atcggggggc tcatgatgtg ggtgcagccc ataaaaaact ggtgtgtggt ttcgaaccga 360
 aaattttctg tttttttccg ccacgagagg ttctggaggc atactctcca gcaccgtggc 420
 taataacgca ttgttccaat tcagtctggc cttgtcatgc at 462

<210> 159
 <211> 463
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(463)

09976054-101501

<223> unsure at all n locations

<400> 159

gtgctttgat aacttcggcg acaaggtgaa gaattggttg acctttaatg agccccagac 60
attnncttcc ttttcctacg gaactggggg ctttgcccca ggtcgggtgct cacctggact 120
agactgtgcc tacccaactg ggaattcact cgtcgagcct tacactgctg gccataacat 180
tctcctagcc cacgctgagg ctgttgatct ttacaacaag cattacaagc gcgacgacac 240
ccgcataggg cttgcgtttg acgtaatggg tcgtgtgcca tacggaacat cgtttctgga 300
taaacaggcc gaagaaaggt cctgggacat caacctagga tggttcttag agccagtggg 360
tcgtggtgac tacccttctt ccatgagatc attggctagg gaacgactac ctttcttcaa 420
ggacgagcag aaggagaagc tcgccgntc ctataacatg ttg 463

<210> 160

<211> 466

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(466)

<223> unsure at all n locations

<400> 160

gcgagaacgg ccgcataggt cttgcatttg atgtaatggg tcgtgtgcca tacggaacat 60
catttctaga tgaacaggcc aaagaaaggt ccatggacat taacctagga tggttcttgg 120
agcctgtggg tcgtggtgac tacccttctt caatgagatc gtttagcgagg gaacgactac 180
ccttcttcag tgacaaacag caagagaagc ttgtgggatc ctataacatg ttgggaataa 240
actactacac ctcaatatc tccaaacata tcgacatctc accaaaatac tcgcctgttc 300
tcaacactga cgacgcctac gctagtcaag aaacgtatgg gcctgacggg aaacccttg 360
gtcctnctat gggaaatccg tggatctact tataccaga aggcctaaag gatatcctta 420
tgatcatgaa gaacaaatat gggaaacccc acctatctac atnact 466

<210> 161

<211> 441

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(441)
 <223> unsure at all n locations

 <400> 161

 agattacaca tactttgcta aggtgtgctt tgataacttc ggcgacaagg tgaagaanng 60
 gtggaccttt aatgagcccc agacatttac ttccttttcc tacggaactg gggctcttgc 120
 cccaggtcgg tgetcacctg gactagactg tgcctacca actgggaatt cactcgtcga 180
 gccttacact gctggccata acattctcct agcccacgct gaggctgttg atctttacaa 240
 caagcattac aagcgcgacg acacccgcat agggcttgcg tttgacgtaa tgggtcgtgt 300
 gccatacggg acatcgtttc tggataaaca ggccgaagaa aggtcctggg acatcaacct 360
 aggatggttc ttagagccag tggttcgtgg tgactacccc ttctccatga gatcattggc 420
 tagggaacga ctacccttct t 441

<210> 162
 <211> 444
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(444)
 <223> unsure at all n locations

<400> 162

 caccaaacta ctcacctgtg ctcaaacactg acgacgccta cgccagtcaa gaagttaacg 60
 gggctgacgg gaagcccatn ggtcctccta tgggaaatcc atggatctac atgtaccctg 120
 agggcttgaa ggatctcctt atgatcatga agaacaata cggaaacca cctatctaca 180
 tcacggagaa cggaatcggg gatgttgata ccaaggagac acctotaccc atggaggatg 240
 ccttaaatga ctacaaaagg ctagattaca tccagcgcca catcgctact ctttaaggaat 300
 caatagactt gggatcaa at gtgcaaggct acttcgcttg gtctctgctg gacaactttg 360
 aatggttcgc cggcttcacc gaacgttatg gcattgtcta cgtcgaccgn aacaataact 420
 gnacgcgcta catgaangag tctg 444

<210> 163
 <211> 470
 <212> DNA
 <213> Zea mays

<220>

0996054.101501

<221> unsure
 <222> (1)...(470)
 <223> unsure at all n locations

 <400> 163

 ctcacctgtg ctcaacactg acgacgcctt tnccagtcna gaagttaacg ggcctgacgg 60
 gaagcccatt ggctctccta tgggaaatcc atggatctac atgtaccctg agggcttgaa 120
 ggatctcctt atgatcatga agaacaaata cggaaaccca cctatctaca tcacggagaa 180
 cggaatcggg gatgttgata ccaaggagac acctctaccc atggaggatg ccttaaatga 240
 ctacaaaagg ctagattaca tccagcgcca catcgctact cttaaggaat caatagactt 300
 gggatcaaatt gtgcaaggct acttcgcttg gtctctgctg gacaactttg aatgggtcgc 360
 cggcttacct gaacgttatg gcattgtcta cntcgacctg aacaatnact gnacgcgcta 420
 catgaangag tctgccaagt gggtgaaaca gttcaacgnc nccnaaaaaa 470

<210> 164
 <211> 435
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(435)
 <223> unsure at all n locations

 <400> 164

 tanacaatgc cataacgttc ggtgaagccg gcgaaccatt caaagttgtc cagcagagac 60
 caagcgaagt agccttgac atttgatccc aagtctattg attccttaag agtagcgatg 120
 tggcgctgga tgtaatctag cctttttag tagtatttaagg catcctccat gggtagagg 180
 gtctccttg tatcaacatc cccgattccg ttctccgtga ttagatagagg tgggtttccg 240
 tatttgttct tcatgatcat aaggagatcc ttcaagccct cagggtacat gtagatccat 300
 ggatttccca taggaggacc aatgggcttc ccgtcaggcc cgttaacttc ttgactggcg 360
 taggcgtcgt cagtgttgag cacagggtgag tagtttggtg agatatcgat gtttttggag 420
 aaccgtgagg tgtat 435

<210> 165
 <211> 459
 <212> DNA
 <213> Zea mays

09976054-101501

<220>
 <221> unsure
 <222> (1)...(459)
 <223> unsure at all n locations

 <400> 165

 cagaaggaga agctcgccgg ttcctataac nttgtnggtn gttaaactac tacacctcac 60
 gggngtccga aaacatcgat atctcaccaa actactcacc tgtgctcaac actgacgacg 120
 cctacgccag tcaagaagtt aacgggcctg acggaagcc cattggctct cctatgggaa 180
 atccatggat ctacatgtac cctgagggct tgaaggatct ccttatgatc atgaagaaca 240
 aatacggaaa cccacctatc tacatcacgg agaacggaat cggggatggt gataccaagg 300
 agacacctct acccatggag gatgccttaa atgactacaa aaggctagat tacatccagc 360
 gccacatcgc tactcttaag gaatcaatag acttgggatc aaatgtgcaa ggntacttcg 420
 cttggnctct gctggacaac tttgaatggg ttcgccggc 459

<210> 166
 <211> 466
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(466)
 <223> unsure at all n locations

 <400> 166

 aaggaattt tnattgaatg ctctaccggt ccggaattcc cggggtagaa gattacacat 60
 actttgctaa ggtgtgcttt gataacttcg gcgacaagggt gaagaattgg ttgacnttta 120
 nggagcccca gacattnact tccttttctt acggaactgg ggtctttgcc ccaggctcgt 180
 gctcacctgg actagactgt gcctacccaa ctgggaattc actcgtcgag ccttacactg 240
 ctggccataa cattctccta gcccacgctg aggctgttga tctttacaac aagcattaca 300
 agcgcnacga caccgcata gggcttgctt ttgacgtaat gggctcgtgtg ccatacggaa 360
 catcgtttct ggataaacag gccgaanaaa ggtcctggga catcaacctt ggatggttct 420
 tagagccagt ggttcgtggt gactaccctt tctccatgag atcatt 466

<210> 167
 <211> 478
 <212> DNA
 <213> Zea mays

09976054-101501

<220>
 <221> unsure
 <222> (1)...(478)
 <223> unsure at all n locations

 <400> 167

 gatgttgata ccaaggagac acctctaccc atggaggatg ccttaaatga ctacaaaagg 60
 ntagattnca tccagcgcca catcgctact ctttaaggaat caatagactt gggatcaaat 120
 gtgcaaggct acttcgcttg gtctctgctg gacaactttg aatggttcgc cggcttcacc 180
 gaacgttatg gcattgtcta cgtcgaccgc aacaataact gcacgcgcta catgaaggag 240
 tctgccaaagt gggtgaaaca gttcaacgcc gcgaagaacc cagcaagaag attcttacgc 300
 cagcttagaa atcggggggcc tcatgatgtg ggtgcagccc ataaaaaact ggtgtgtggg 360
 ttggaaccga aaattttctg gttttttccg nccgagaggg tctggangca tactnttcaa 420
 cacccgnggc taataacgca ttggtncaat tcaatctggc cttgtcatgc ctgcaata 478

<210> 168
 <211> 447
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(447)
 <223> unsure at all n locations

 <400> 168

 ctcaagcact agaagagaag tacggcggat tcttagataa gactcataag aggnttggaa 60
 atgattacaa aaacttcgct aagggtgtgt tgcacaactt tggtgacaag gtgaagaatt 120
 gggtgacctt taatgagccc cagacattta cttcattttc ctatggaacc ggggtctttg 180
 ccccaggacg atgctcaccg ggactagact gtgccatccc aactgggaat tcaactcgtcg 240
 aacettacat tgctggccac aacattcttc tagcccacgc tgaggctgtt gatctttaca 300
 acaagtatta caagggcgag aacggncgc ataggtcttg catttgatgt aatgggtcgt 360
 gtgccatacn gaacatcatt tctagatnaa caggcccaan naagggccct ngacattaac 420
 ctangatggn tcntngganc ctgtgnt 447

<210> 169
 <211> 454
 <212> DNA

09976054-101501

```

<213>      Zea mays

<220>
<221>      unsure
<222>      (1)...(454)
<223>      unsure at all n locations

<400>      169

cgtaecgcgcg agctnngnct ntggcgtttg cccatttcg gtntcacct ggactagact   60
gtgcctnccc angtgggaat tcaactcgtcg agccttacac tgctggccat aacattctcc  120
tagcccacgc tgaggctgtt gatctttaca acaagcatta caagcgcgac gacacccgca  180
tagggcttgc gtttgacgta atgggtcgtg tgccatacgg aacatcgttt ctggataaac  240
agggccgaaga aaggctcctgg gacatcaacc taggatgggt cttagagcca gtggttcgtg  300
gtgactaccc cttctccatg agatcattgg ctagggaacg actacccttc ttcaaggacg  360
agcagaagga gaagctcgcg gtcctataac atggtggggg taaactacta cacctcacgg  420
ttctcaaaaa catcgatatc tcaccaaact actc                                454

<210>      170
<211>      439
<212>      DNA
<213>      Zea mays

<400>      170

cgctgaggct gttgatcttt acaacaagca ttacaagcg cgcgacaccc gcatgggggt   60
tgcgtttgac gtaatgggtc gtgtgccata cggaacatcg tttctggata aacaggccga  120
agaaagggtcc tgggacatca acctaggatg gttcttagag ccagtgggtc gtggtgacta  180
cccccttctcc atgagatcat tggctagggg acgactaccc ttcttcaagg acgagcagaa  240
ggagaagctc gccggttcct ataacatggt ggggttaaac tactacacct cacggttctc  300
caaaaacatc gatatctcac caaactactc acctgtgctc aacacttgac gacgcctacg  360
ccagtcaaga aagttaacgg gcctgacggg aagcccattg gtccttctat gggaaatcca  420
tggatctaca tgtaccctg                                              439

<210>      171
<211>      434
<212>      DNA
<213>      Zea mays

<220>
<221>      unsure

```


<222> (1)...(434)
 <223> unsure at all n locations
 <400> 171
 gcattgtaga agattacaca tactttgcta aggtgtgctt tgataacttc ggcgacnngg 60
 tgaagaattg gttgaccttt aatgagcccc agacattttac ttctttttcc tacggaactg 120
 ggggtctttgc cccaggtcgg tgctcacctg gactagactg tgcttaccga actgggaatt 180
 cactcgtcga gccttacact gctggccata acattctcct agcccacgct gaggctgttg 240
 atctttacaa caagcattac aagcgcgacg acacccgcat agggcttgcg tttgacgtaa 300
 tgggtcgtgt gccatacnga acatcgtttc tggataaaca ggccgaanaa aggtctgggg 360
 acatcaacct aagatgggtc ttaaaaccan tgggtngtng ngactacccc ttcttcatgg 420
 aattttnggg ttgg 434

<210> 172
 <211> 464
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(464)
 <223> unsure at all n locations
 <400> 172

gtacatncag cgccacatng ctactcttaa ggtttcaata gacttgggat caaatgtgca 60
 agggtncttc gcttgggtct tgctggacaa ctttgaatgg ntcgccggct tcaccgaacg 120
 ttatggcatt gtctacgtcg accgcaacaa taactgcacg cgctacatga aggagtctgc 180
 caagtgggtg aaacagttca acgcccnaa gaancccagc aagaagattc ttacgccagc 240
 ttagaaatcg ggggcctcat gatgtgggtg cagnccataa aaaactgggtg tgtgggttgg 300
 aaccgaaaat tttctggntt tttcnccac gagaggttct ggaggcatac tctccaacac 360
 cgtggctaata aacgcattgg tccaattcaa gctggccttg catgcatgca ataaataaag 420
 tgatgggttt ncctggttca aaaaacntan naaaaaaagg gggg 464

<210> 173
 <211> 426
 <212> DNA
 <213> Zea mays
 <400> 173

agcagctcaa aactctagct agctaccagg ggggaaaatg gctccacttc tcgccgcagc 60
 catgaaccac gctacccatc cagtccttag aagccatcta ggacccaaca atgagagttt 120
 ctcaagacac cacctatctt cttcaccaca aagcagtaag cgaagggtta accttagctt 180
 tacgccacga tctgcaaggg taggcaatga aaatggagtc caattgttga gcccctcgga 240
 aatccctcga agggactggt tccctctga cttcatcttt ggtgccgcca cttcagcgta 300
 ccaaattgaa ggtgcatgga acgaagatgg aaagggggaa agcaattggg atcacttctg 360
 ccacaatttt ccggaagga taatggacgg gagcaatgca gacattggga gcgaattcgt 420
 accaaa 426

<210> 174
 <211> 396
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(396)
 <223> unsure at all n locations
 <400> 174

caaatgtgca aggtacttc gcttggcttc tgctggacaa ctttgaatgg ttcgccggct 60
 tcaccgaacg ttatggcatt gtctacgtcg accgcaacaa taactgcacg cgctacatga 120
 aggagtctgc caagtgggtg aaacagttca acgccgcgaa gaagcccagc aagaagattc 180
 ttacgccagc ttagaaatcg ggggcctcat gatgtgggtg cagcccataa aaaactgggtg 240
 tgtggtttg aaccgaaaat tttctgnttt tttccgccac gagaggttct ggaggcatatc 300
 tctncagcac cgtggctaataaacgcattgt tccaattcaa tctggccttg tcatgcatgc 360
 aataaataaa gtgatggggtt tccctggttc aatatc 396

<210> 175
 <211> 435
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(435)
 <223> unsure at all n locations
 <400> 175

aggagaagct cgccggttcc tataacatgt tgggggttaa ctactacacc tcacggttct 60
 ccaaaaaacat cgatatctca ccaaactact cacctgtgct caacactgac gacgcctacg 120
 ccagtcaaga agttaacggg cctgacggga agccattgg tcctcctatg ggaaatccat 180
 ggatctacat gtaccctgag ggcttgaagg atctccttat gatcatgaag aacaaatacg 240
 gaaaccacc tatctacatc acggagaacg gaatcgggga tgttgatacc aaggagacac 300
 ctctacccat ggaggatgcc ttaaatactg acaaaaggct agattacatn caagcgccac 360
 atcgctactc ttaaggaatc aatagacttg ggatcaaaat gtgcaanggg tacttttgctt 420
 gggctctgnt ggaca 435

<210> 176
 <211> 453
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(453)
 <223> unsure at all n locations
 <400> 176

gacgtaatgg gtcgtgtgcc atacggaana tcgtttctgg ataaacaggc cgaagaaagg 60
 ncctgggaca tcaacctagg atggttctta gagccagtgg ttcgtggtga ctacccttc 120
 tccatgagat cattggctag ggaacgacta cccttcttca aggacgagca gaaggagaag 180
 ctgcccgtt cctataacat gttgggggta aactactaca cctcacggtt ctccaaaaac 240
 atcgatatct caccaaaacta ctacactgtg ctcaacactg acgacgccta cgccagtcaa 300
 gaagttaacg ggcctgacgg gaagcccatt ggtcctccta tgggaaatcc atggatctca 360
 tgtaccctga gggcttgaag ggatctcctt atgaatcatg aagnaccaat tccggaaacc 420
 cacctatcta cattaccgga gaacgggatt cgg 453

<210> 177
 <211> 409
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(409)
 <223> unsure at all n locations
 <400> 177

09976054-101501

tccctataat gagtcgtatt agtanggcatt cangtactac agaancctca tcaacttggt 60
 gctagaaanc ggcattnnngc catatgtaac aattttccac tgggatgtac ctcaagcact 120
 agaggagaag tncggcggct tcctagatnn gagtcataag ngcattgtcg aagattacac 180
 atactttgct aaggtgtgct ttgataactt cggcgacaag gtgaagaatt gggtgacctt 240
 taatgagccc cagacattta ctcccttttc ctacggaact ggggtctttg cccaggtcg 300
 gtgctcacct ggactagact gtgcctaccc anctgggaat tcactcgctg agccttacac 360
 tgctggccat aacattctcc tancccaagc tgaggctggt gatctttac 409

<210> 178
 <211> 371
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(371)
 <223> unsure at all n locations

<400> 178
 ttaaactact acacctcagc gttctccaaa aacatcgata tctcaccaa ctactcacct 60
 gtgctcaaca ctgacgacgc ctacgccagt ccaagaagtt aacgggcctg acgggaagcc 120
 cattggctct cctatgggaa atccatggat ctacatgtac cctgagggct tgaaggatct 180
 ccttatgatc atgaagaaca aatacggaaa cccanctatc tacatcacgg agaacggaat 240
 cggggatggt gataccaagg agacacctct acccatggag gatgccttaa atgactacaa 300
 aaggctagat tacatccagc gccacatcgc tactcttaag gaatcaatag acttgggatc 360
 aatgtgcaag g 371

<210> 179
 <211> 342
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(342)
 <223> unsure at all n locations

<400> 179
 gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgctgct gccatgaacc 60

acgctgcagc ccatcctggc cttaggagcc acctagtagg acccaacaat gagagtttctn 120
cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaaggtgt aaccttagct 180
ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaagtgtg agccccctcg 240
aaatcccaca aagggactgg tccccctctg acttcacctt cggtgccgcc acttcagcgt 300
accaaattga aggtgcttgg aatgaagatg gaaaggggga aa 342

<210> 180
<211> 464
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(464)
<223> unsure at all n locations

<400> 180

gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgtgct gccatgaacc 60
acgctgcagc ccatcctggc cttaggagcc acctagtagg acccaacaat gagagtttct 120
cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaaggtgt aaccttagct 180
ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaagtgtg agccccctcg 240
aaatcccaca aaggggactg ggtccccctct gacttcacct tcngtgccga cacttcagng 300
gtnccaaatt gaaggtgctt ggaatgaaga tggaaagggg gaaagcaact gggatcactt 360
ntggcacaat cattcggaag ggatactggg acgggagcna attcanaaca ttggagcgaa 420
tttcgtacca ntatgtacaa aaacgggacg ttnagatttg ctna 464

<210> 181
<211> 463
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(463)
<223> unsure at all n locations

<400> 181

ggtcaagtaa cgnnggtcga nccangcctc taaatagact cnnattacta aggtgtgctt 60
tgataacttc ggcgacaang tgaagaattg gttgaccttt aatgagcccc agacatttac 120
ttccttttcc tacggaactg ggggtctttgc cccaggtcgg tgctcacctg gactaagact 180

gtgcctaccc aactgggaat tcaactcgctg agccttacac tgctggccat aacattctcc 240
tagcccacgc tgaggetggt gatctttaca acaagcatta caagcgcgac gacacccgca 300
tagggcttgc gtttgacgta atgggtcgtg tgccatacgg aacatcgttt ctgggataaa 360
canggccgaa gaaaagtcct gggaaatcaa cctanggatg ggtcctaaag ccaattgntc 420
ntggtgaacn acccctcnc aananattat tggctaggga aca 463

<210> 182
<211> 337
<212> DNA
<213> Zea mays

<400> 182

gggaaatcca tggatctaca tgtaccctga gggcttgaag gatctcctta tgatcatgaa 60
gaacaaatac ggaaacccac ctatctacat cacggagaac ggaatcgggg atgttgatac 120
caaggagaca cctctaccca tggaggatgc cttaaagac tacaaaaggc tagattacat 180
ccagcgccac atcgctactc ttaaggaatc aatagacttg ggatcaaagtg tgcaaggcta 240
cttcgcttgg tctctgctgg acaactttga atgggtcgcc ggcttcaccg aacgttatgg 300
cattgtctac gtcgaccgca acaattactg cacgcgt 337

<210> 183
<211> 343
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(343)
<223> unsure at all n locations

<400> 183

acggaacatc gtttctggat aaacaggccg aagaaaggctc ctgggacatc aacctaggat 60
gnttcttaga gccagtgggt cgtgggtgact accccttctc catgagatca ttggctaggg 120
aacgactacc cttcttcaag gacgagcaga aggagaagct cgccgggttc tataacatgt 180
tgggggttaaa ctactacacc tcacggttct ccaaaaacat cgatatctca ccaaactact 240
cacctgtgct caacactgac gacgcctacg ccagtcaaga agttaacggg cctgacggga 300
agcccatggt cctcctatgg gaaatccatg gatctacatg tac 343

<210> 184
 <211> 415
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(415)
 <223> unsure at all n locations

 <400> 184

 ccactgagga tgtacctcaa gcactagaag agaagtacgg cggtcttcta gataagagtc 60
 ataagagcat tgtagaagat tacacatact ttgctaaggt gtgctttgat aacttcggcg 120
 acaagggtgaa gaattgggtg acctttaatg agccccagac atttacttcc ttttcctacg 180
 gaactggggg ctttgcccca ggtcggtgct cacctggact agactgtgcc taccctaactg 240
 ggaattcact cgtcagcct tacactgctg gccataacat tctcctagcc cacgctgagg 300
 ctgttgatct ttacaacaag cattacaaag cgcgacgaca acccgcataa gggcttgccg 360
 ttggacgtta atgggtccnt gttgccatac ggaaacatcg tttctggata aacag 415

<210> 185
 <211> 443
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(443)
 <223> unsure at all n locations

 <400> 185

 ggcattgtct acgtcgaccg caaaaataac tacacgcgct acatgaagga gtcagccang 60
 tgggtaaaag agttcaatac tgcaagaag cctagcaaga agattattac gccagcttaa 120
 aaacatggga cctcgtgatg tgggtacggt gccacccatg aaataaaaac ctagtgtgtg 180
 gtttgaaacc taaatttttc tttttctttt ttgcaccatg agagaggtag tggagtcata 240
 ttctccagca ccgtggctaa taatgtattg ttgcagtaca atctagcatt gtcgtcatgc 300
 aataaataaa gtgactgggt tccctatttc aaannnnnnn nnnnnnnnnn nccgcccttt 360
 ttttttatct cattccgtat tttatttctt ttttcaaact ccactctgca aacagtgtca 420
 aacagtgttg tcatctacag ttt 443

<210> 186

09975054-101501

<211> 329
 <212> DNA
 <213> Zea mays

<400> 186

attggtcctc ctatgggaaa tccatggatc tacatgtacc ctgagggctt gaaggatctc 60
 cttatgataa tgaagaacaa atacggaaac ccacctatct acatcaccca gaacggaatc 120
 ggggatgttg ataccaaaga gacacctcta cccatggagg ctgccttaaa tgactacaaa 180
 aggctagatt acatccagcg ccacatcgct actcttaagg aatcaataga cttgggatca 240
 aatgtgcaag gctacttcgc ttggtctctg ctggacaact ttgaatgggt tgccggcttc 300
 accgaacgtt atggcattgt ctacgtcga 329

<210> 187
 <211> 332
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)... (332)
 <223> unsure at all n locations

<400> 187

caaagctcta gttctagcta gctagcaaan ggggggaaaa tggctccgct tctcgctgct 60
 gccatgaacc acgctgcagc ccacctggc cttaggagcc acctagtagg acccaacaat 120
 gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaagggtg 180
 aaccttagct ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaattgtg 240
 agccctcgg aaatcccaca aagggaactgg tccccctctg acttcacctt cgggtgccgc 300
 acttcagcgt accaaattga aggtgcttgg aa 332

<210> 188
 <211> 487
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)... (487)
 <223> unsure at all n locations

<400> 188

gcgcggacgc cctgggacat caacctanga tngtnnttag agccactggn gcattggtga 60

ctacccctgg nccngnanat catnggctng ggaacgacta cccttnnca angccganca 120
naangagaan ctncggntc ctataacatg ttncggtaa actactacac ctcacggttc 180
tccanaaaca tcgatatctc accaaactac tcacctgtgc tcaacactga cgaccctac 240
nccngtcaag annttaacgn gcctcacngg aancccttg gtctcctat cggaaatcca 300
tgnatctaca tgnaccctga gggcttgaag gatcttctta tgatcatgan naacnantac 360
tggaaccaca cctatctaca tcacggataa ccgaatccng gatgntgatc caatgaagac 420
acctttancc atggnacgat ccttananta ctnccaaaan cttgattaca ntcancggca 480
attngtt 487

<210> 189
<211> 343
<212> DNA
<213> Zea mays

<400> 189
caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgtgct 60
gccatgaacc acgctgcagc ccatcctggc cttaggagcc acctagtagg acccaacaat 120
gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaagggtg 180
aaccttagct ttactacagc atctgcaaga gtaggcagcc aaaatggagt ccaaagtgtg 240
agccccctga aatcccacaa agggactggg tccccctctga cttcaccttc ggtgccgcca 300
ttcagcgtac caaattgaag gtgcttgga tgaagatgga aag 343

<210> 190
<211> 331
<212> DNA
<213> Zea mays

<400> 190
agcagctcaa agctctagtt ctagctagct agcaaagggg gggaaaatgg ctccgcttct 60
cgctgctgcc atgaaccacg ctgcagccca tctggcctt aggagccacc tagtaggacc 120
caacaatgag agtttctcac ggcaccacct gccgtcttct tctccacaga gcagcaagcg 180
aagggtgaac cttagcttta ctacacgatc tgcaagagta ggcagccaaa atggagtcca 240
aatgttgagc ccctcgaaa tcccacaaag ggactgggtc ccctctgact tcaccttcgg 300
tgccgccact tcagcgtacc aaattgaagg t 331

<210> 191
 <211> 324
 <212> DNA
 <213> Zea mays

<400> 191

caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgctgct 60
 gccatgaacc acgctgcagc ccatcctggc cttaggagcc acctagtagg acccaacaat 120
 gagagtttct caccggacca cctgccgtct tcttctccac agagcagcaa gcgaagggtg 180
 aaccttagct ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaagtgtg 240
 agccccctcg aaatcccaca aagggaactgg ttccccctctg acttcacctt cgggtgccgc 300
 acttcagcgt accaaattga aggt 324

<210> 192
 <211> 322
 <212> DNA
 <213> Zea mays

<400> 192

gaaaatggct ccgcttctcg ctgctgccat gaaccacgct gcagcccatc ctggccttag 60
 gagccaccta gtaggaccca acaatgagag tttctcacgg caccacctgc cgtcttcttc 120
 tccacagagc agcaagcgaa ggtgtaacct tagctttact acacgatctg caagagtagg 180
 cagccaaaat ggagtccaaa tgttgagccc ctcggaaatc ccacaaaggg actggttccc 240
 ctctgacttc accttcggtg ccgccacttc agcgtaccaa attgaagggtg cttggaatga 300
 agatggaaag ggggaaagca ac 322

<210> 193
 <211> 324
 <212> DNA
 <213> Zea mays

<400> 193

cgacgacacc cgcatagggc ttgcgtttga cgtaatgggt cgtgtgccat acggaacatc 60
 gtttctggat aaacaggccg aagaaagggtc ctgggacatc aacctaggat ggttcttaga 120
 gccagtgggt cgtggtgact accccttctc catgagatca ttggctaggg aacgactacc 180
 cttcttcaag gacgagcaga aggagaagct cgccggttcc tataacatgt tggggttaaa 240
 ctactacacc tcacggttct ccaaaaacat cgatatctca ccaaactact cacctgtgct 300

caacactgac gacgcctacg ccat 324

<210> 194
<211> 331
<212> DNA
<213> Zea mays

<400> 194

cttgttgcta gaaaacggca tagagccata tgtaacaatt ttccactggg atgtacctca 60
agcactagaa gagaagtacg gcggcttcct agataagagt cataagagca ttgtagaaga 120
ttacacatac tttgctaagg tgtgctttga taacttcggc gacaagggtga agaagggtga 180
cctttaatga gccccagaca tttacttcct tttcctacgg aactgggggc tttgccccag 240
gtcgggtgctc acctggacta gactgtgcct acccaactgg gaattcactc gtcgagcctt 300
acactgctgg ccataacatt ctcctagccc a 331

<210> 195
<211> 320
<212> DNA
<213> Zea mays

<400> 195

gaggctgttg atctttacaa caagcattac aagcgcgacg acacccgcat agggcttgcg 60
tttgacgtaa tgggtcgtgt gccatacggg acatcgtttc tggataaaca ggccgaagaa 120
aggtcctggg acatcaacct aggatggttc ttagagccag tggttcgtgg tgactacccc 180
ttctccatga gatcattggc tagggaacga ctacccttct tcaaggacga gcagaaggag 240
aagctcgccg gttcctataa catggtgggg ttaaactact acacctcagc gttctccaaa 300
aacatcgata tctcaccaaa 320

<210> 196
<211> 322
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(322)
<223> unsure at all n locations

<400> 196

gggaacgact acccttcttc aaggacgagc agaaggagaa gctcgccggg tcctataaca 60

09975054-101301

tgttgggggtt aaactactac acctcacggt tctccaaaaa catcgatatc tcaccaaact 120
 actcacctgt gctcaacact gacgacgcct acgccagtca agaagttaac gggcctgacg 180
 ggaagcccat tggctcctct atgggaaatc catggatcta catgtaccct gagggcttga 240
 aggatctcct tatgatcatg aagaacaaat acggaaaccc acctatctnc atcacggaga 300
 acggaatcgg ggatgttgat ac 322

<210> 197
 <211> 330
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(330)
 <223> unsure at all n locations

<400> 197
 cnggcctgac ggggaagccca ttggctcctcc tatgggaaat ccatggatct acatgtaccc 60
 tgagggcttg aaggatctcc ttatgatcat gaagaacaaa tacggaaacc cacctatcta 120
 catcacggag aacggaatcg gggatgttga taccaaggag acacctctac ccatggagga 180
 tgccctaaat gactacaaaa ggctagatta catccagcgc cacatcgcta ctcttaagga 240
 atcaatagac ttgggatcaa atgtgcaagg ctacttcgct ggtctctgct ggacaacttt 300
 gaatggttcg ccggcttcac cgaacgntat 330

<210> 198
 <211> 318
 <212> DNA
 <213> Zea mays

<400> 198
 caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgctgct 60
 gccatgaacc acgctgcagc ccacctctggc cttaggagcc acctagtagg acccaacaat 120
 gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaagggtg 180
 aaccttagct ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaagtgtg 240
 agcccctcgg aaatcccaca aagggactgg ttcccctctg acttcacctt cggtgccgcc 300
 acttcagcgt accaaatt 318

<210> 199
 <211> 318
 <212> DNA
 <213> Zea mays

<400> 199

agcaattcag acattggagc gaattcgtac catatgtaca aaacggacgt cagattgctc 60
 aaggaaatgg gcatggacgc atatagggtc tctatctctt ggcccagaat actgccgaag 120
 ggaaccaaag aaggaggtat taaccgggat ggcatcaagt actacagaaa cctcatcaac 180
 ttgttgctag aaaacggcat agagccatat gtaacaattt tccactggga tgtacctcaa 240
 gcactagaag agaagtacgg cggcttccta gataagagtc ataagagcat tgtagaagat 300
 tacacatact ttgctaag 318

<210> 200
 <211> 341
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(341)
 <223> unsure at all n locations

<400> 200

cggacntggg cntagctagc aggggggggaa atggctccac ttctcgccgc agccatganc 60
 cacgctgccc atccagtcct tagaagccat ctaggacceca acaatgagag tttctcacga 120
 caccacctat cttcttcanc gcaaagcagt aaagcgaagg tttaacctta gctttacgcc 180
 acgatctgca agagtaggca atcaaaatgg agtccaattg ttgagccctt cggaaatccc 240
 tcgaagggac tggttcccct ccgacttcat ctttggtgcc gccacttcag cgtaccaaatt 300
 tgaagggtgct tggaacgaag atggaaaggg ggaaagcaat t 341

<210> 201
 <211> 323
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(323)
 <223> unsure at all n locations

<400> 201

cctagtagga cccaacaatg agagtttctc acggcaccac ctgccgtctt cttctccaca 60
gagcagcaag cgaaggtgta accttagctt actacacgat ctgcaagagt aggcagccaa 120
aatggagtc aaatggtgag cccctcggaa atcccacaaa gggactgggt cccctctgac 180
ttcaccttcg gtgccgccac ttcagcgtac caaattgaag gtgcttgga tgaagatgga 240
aagggggaaa gcaactggga tcacttctgc cacaatcatc cggaangat actggacngg 300
agcaattcag acattggagc gaa 323

<210> 202
<211> 318
<212> DNA
<213> Zea mays

<400> 202

aaaatggagt ccaaattgtg agcccctcgg aaatcccaca aagggactgg ttcccctctg 60
acttcacctt cgggtgccgc acttcagcgt accaaattga aggtgcttg aatgaagatg 120
gaaaggggga aagcaactgg gatcacttct gccacaatca tccggaaagg atactggacg 180
ggagcaattc agacattgga gcgaattcgt accatatgta caaacggac gtcagattgc 240
tcaaggaaat gggcatggac gcatataggt tctctatctc ttggcccaga atactgccga 300
aggaacccaa gaaggagg 318

<210> 203
<211> 312
<212> DNA
<213> Zea mays

<400> 203

gccatatgta acaattttcc actgggatgt acctcaagca ctagaagaga agtacggcgg 60
cttcctagat aagagtcata agagcattgt agaagattac acatactttg ctaagggtgtg 120
ctttgataac ttcggcgaca aggtgaagaa ttggttgacc tttaatgagc ccagacatt 180
tacttccttt tcctacggaa ctgggggtctt tgccccaggt cgggtgtcac ctggactaga 240
ctgtgcctac ccaactggga attcactcgt cgagccttac actgctggcc ataacattct 300
cctagcccac gc 312

<210> 204
<211> 315
<212> DNA
<213> Zea mays

09976054-101501

<220>
 <221> unsure
 <222> (1)...(315)
 <223> unsure at all n locations

<400> 204

gttctagcta gctagcaaan ggggggaaaa tggctccgct tctcgctgct gccatgaacc 60
 acgctgcagc ccatectggc cttaggagcc acctagtagg acccaacaat gagngtttct 120
 cacggaacca cctgccgtct tcttctccac agagcagcaa gcgaagggtgt aaccttagct 180
 ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaagtgtg agccccctcg 240
 aaatcccaca aagggaactgg ttcccctctg acttcacett cggtgccgcc acttcagcgt 300
 accaaattga aggtg 315

<210> 205
 <211> 321
 <212> DNA
 <213> Zea mays

<400> 205

gtacggcggg attcttagat aagactcata agaggattgt aaatgattac aaaaacttcg 60
 ctaagggtgtg cttcgacaac ttggtgaca aggtgaagaa ttggttgacc tttaatgagc 120
 cccagacatt tacttcattt tcctatggaa ccggggtctt tgccccagga cgatgctcac 180
 cgggactaga ctgtgccatc ccaactggga attcactcgt cgaaccttac attgctggcc 240
 acaacattct tctagcccac gctgaggctg ttgatcttta caacaagtat tacaagggcg 300
 agaacggccg cataggtctt g 321

<210> 206
 <211> 335
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(335)
 <223> unsure at all n locations

<400> 206

tctacatgta ccctgagggc ttgaaggatc tccttatgat antgaagaac aaatacggaa 60
 acccacctat ctacatcacc gagaacggaa tccggggatg ttgataccaa agagacacct 120

ctacccatgg aggctgcctt aaatgactac aaaaggctag attacatcca gcgccacata 180
 cgctactctt aaggaatcaa tagacttggg atcaaatgtg caaggctact tcgcttggtc 240
 tctgctggac aactttgant ggtttgccgg cttcaccgaa cgttatggcn tgtctacgtc 300
 gaccgcaaca ataactgcac gcgctacatg aagga 335

<210> 207
 <211> 346
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(346)
 <223> unsure at all n locations

<400> 207

gaagaacaaa tacggaaacc cacctatcta catcacngag aacggaatcg gggatgttga 60
 taccaaggag acacctctac ccatggagga tgccttaaata gactacaaaa ggctagatta 120
 catccagcgc cacatcgcta ctcttnaggn atcnatagac ttgggatcaa atgtgcaagg 180
 ctacttcgct tgggtctctgc tggacaactt tgaatgggtc gccggcttca ccgaacgtta 240
 tggcattgtc tacgtcgacc gcaacnataa ctgcacngt acatgaagga gtctgccaag 300
 tggttgaaac ngttcnacgc nncgaagaag cccngcaag aagatt 346

<210> 208
 <211> 360
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(360)
 <223> unsure at all n locations

<400> 208

taacattctc ctagcccacg ctgaggctgt tgatotttac aacaagcatt acaagcgcga 60
 cgacaccgcg atagggattg cgtttgacgt aatgggtcgt gtgccatacg gaacatcggt 120
 tctggataaa caggccgaag aaaggctcctg ggacatcaac ctaggatggg tcttagagcc 180
 agtgggtcgt ggtgactacc ccttctccat gagatcattg gctagggaaac gactaccctt 240
 cttcaaggac gagcagaagg agaagctcgc cggttcctat aacattgttg gggttaacta 300
 tacacctcag gttctccaaa aacatcgata tctcaccaac tatcactgtg ctcaacntga 360

09976054-101501

<210> 209
 <211> 307
 <212> DNA
 <213> Zea mays

 <400> 209

 gctagctagc aaaggggggg aaaatggctc cgcttctcgc tgctgccatg aaccacgctg 60
 cagcccatcc tggccttagg agccacctag taggacccaa caatgagagt ttctcacggc 120
 accacctgcc gtcttcttct ccacagagca gcaagcgaag gtgtaacctt agctttacta 180
 cacgatctgc aagagtaggc agccaaaatg gagtccaaat gttgagcccc tcggaaatcc 240
 cacaaagggg ctggttcccc tctgacttca ccttcggtgc cgccacttca gcgtaccaa 300
 ttgaagg 307

09976054-101501

<210> 210
 <211> 321
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1) ... (321)
 <223> unsure at all n locations

 <400> 210

 ggggggaaaaa tggctccact tctcgccgca gccatgaacc acgctaccca tccagtcctt 60
 agaagccatc taggacccaa caatgngagt ttctcacgac accacctatc ttcttcacca 120
 caaagcagta agcgaagggt taaccttagc tttagccac gatctgcaag ggtaggcaat 180
 gaaaatggag tccaattgtt gagccccctc gaaatccctc gaagggactg gttcccctct 240
 gacttcatct ttggtgccgc cacttcagcg taccaaattg aagggtgcatg gaacgaagat 300
 ggaaaggggg aaagcaattg g 321

<210> 211
 <211> 308
 <212> DNA
 <213> Zea mays

 <400> 211

 caaagctcta gttctagcta gctagcaaag ggggggaaaaa tggctccgct tctcgctgct 60
 gccatgaacc acgctgcagc ccactctggc cttaggagcc acctagtagg acccaacaat 120

gagagtttct cacggcacca cctgccgtct ttttctccac agagcagcaa gcgaaggtgt 180
aaccttagct ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaattgttg 240
agccccctcg aaatcccaca aagggactgg ttccccctctg acttcacctt cggtgccgcc 300
acttcagc 308

<210> 212
<211> 320
<212> DNA
<213> Zea mays

<400> 212

actgacgacg cctacgccag tcaagaagtt aacgggcctg acgggaagcc cattggtcct 60
cctatgggaa atccatggat ctacatgtac cctgagggct tgaaggatct ccttatgatc 120
atgaagaaca aatacggaaa cccacctatc tacatcacgg agaacggaat cggggatggt 180
gataccaagg agacacctct acccatggag gatgccttaa atgactacaa aaggctagat 240
tacatccagc gccacatcgc tactcttaag gaatcaatag acttgggatc aaatgtgcaa 300
ggctattcgc tgggtctctgc 320

<210> 213
<211> 331
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(331)
<223> unsure at all n locations

<400> 213

caaaactcta gctagctacc angggggaaa atgggtccac ttctcgccgc agccatgaac 60
cacgtaccc atccagtcct tagaagccat ctaggacca acaatgagag tttctcacga 120
caccaactat cttcttcacc acaaagcagt aagcgaaggt ttaaccttag ctttacgcc 180
cgatctgcaa gggtaggcaa tgaaaatgga gtccaattgt tgagcccctc ggaaatccct 240
cgaagggact ggttcccctc tgacttcaac tttggtggcg gcacttcagc gtanccaatt 300
gaaagtgc at ggaacgaaga tggaaagggg g 331

<210> 214
<211> 304

09976054-104501

<212> DNA
 <213> Zea mays
 <400> 214

cattctccta gccacgctg aggtgttga tctttacaac aagcattaca agcgcgacga 60
 caccgcata gggcttgctg ttgacgtaat gggctcgtgtg ccatacggaa catcgtttct 120
 ggataaacag gccgaagaaa ggtcctggga catcaaccta ggatggttct tagagccagt 180
 ggttcgtggt gactaccctt tctccatgag atcattggct aggaacgac tacccttctt 240
 caaggacgag cagaaggaga agctcgccgg ttcctataac atgttggggg taaactacta 300
 cacc 304

<210> 215
 <211> 307
 <212> DNA
 <213> Zea mays
 <400> 215

caaaactcta gctagctagc aggggggggaa atggctccac ttctcgccgc agccatgaac 60
 cacgctgccc atccagtcct tagaagccat ctaggaccca acaatgagag tttctcacga 120
 caccacctat cttcttcacc gcaaagcagt aagcgaaggt ttaaccttag ctttacgcca 180
 cgatctgcaa gagtaggcaa tcaaaatgga gtccaattgt tgagcccttc ggaaatccct 240
 cgaagggact ggttcccctc cgacttcacg tttggtgccg ccacttcagc gtaccaaatt 300
 gaagggtg 307

<210> 216
 <211> 323
 <212> DNA
 <213> Zea mays
 <400> 216

ctctagttct agctagctag caaagggggg gaaaatggct ccgcttctcg ctgctgccat 60
 gaaccacgct gcagcccatc ctggccttag gagccaccta gtaggaccca acaaatgaga 120
 gtttctcacg gcaacaacct gccgtcttct tctccacaga gcagcaagcg aaagggtgtaa 180
 ccttagcttt actacacgat ctgcaagagt aggcagccaa aatggagtcc aaatgttgag 240
 cccctcggaa atcccacaaa gggactgggt cccctctgac ttcaccttcg gtgccgccac 300
 ttcagcgtag caaattgaag gtg 323

0996034-101501

<210> 217
 <211> 303
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(303)
 <223> unsure at all n locations

 <400> 217

 anaaaacggc atagagccat atgtaacaat tttccactgg gatgtacctc aagcactaga 60
 agagaagtac ggcggtctcc tagataagag tcataagagc attgtagaag attacacata 120
 ctttgctaag gtgtgctttg ataacttcgg cgacaagggtg aagaattggt tgacctttaa 180
 tgagccccag acatttactt ccttttccta cggaactggg gtctttgccc caggtcgggtg 240
 ctcacctgga ctagactgtg cctacccaac tgggaattca ctcgtcgage cttacactgc 300
 tgg 303

<210> 218
 <211> 303
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(303)
 <223> unsure at all n locations

 <400> 218

 gctagattac atccagcgcc acatcgctac tcttaaggaa tcaatagact tgggatcaaa 60
 tgtgcaaggc tacttcgctt ggtctctgct ggacaacttt gaatggttcg cgggcttcac 120
 cgaacgttat ggcatgtct acgtcgaccg caacaataan tgcacgcgct acatgaagga 180
 gtctgccaag tgggtgaaac agttcaacgc cgcgaagaag cccagcaaga agattcttac 240
 gccagcttag aaatcggggg cctcatgatg tgggtgcagc ccataaaaaa ctggtgtgtg 300
 gtt 303

<210> 219
 <211> 309
 <212> DNA
 <213> Zea mays

 <220>

<221> unsure
<222> (1)...(309)
<223> unsure at all n locations

<400> 219

caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgctgct 60
gccatgaacc acgctgcagc ccatacctggc cttaggagcc acctagtang acccaacaat 120
gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaaggtgt 180
aaccttagct ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaagtgtg 240
agccccctcg aaatcccaca aagggactgg ttccccctctg acttcacttc ggtgccgcca 300
cttcagcgt 309

<210> 220
<211> 299
<212> DNA
<213> Zea mays

<400> 220

caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgctgct 60
gccatgaacc acgctgcagc ccatacctggc cttaggagcc acctagttagg acccaacaat 120
gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaaggtgt 180
aaccttagct ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaagtgtg 240
agccccctcg aaatcccaca aagggactgg ttccccctctg acttcacctt cggtgccgc 299

<210> 221
<211> 312
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(312)
<223> unsure at all n locations

<400> 221

cnancagctc aaagctctag ttctagctag ctagcaaagg ggggggaaaat ggctccnctt 60
ctcgctgctg ccatagaacca cgctgcagcn catcctggcc ttaggagcca cctagttagga 120
cccaacaatg agagtttctc acggcaccac ctgcngtctt cttctccaca gagcagcaag 180
cgaaggtgta accttagctt tactacacga tctgcaagag taggcagcca aaatggagtc 240

caaatgttga gccctcgga aatncacaa agggactggt tccctctga cttcaccttc 300
ggtgccgcca ct 312

<210> 222
<211> 309
<212> DNA
<213> Zea mays

<400> 222

caattttcca ctgggatgta cctcaagcac tagaagagaa gtacggcggc ttcctagata 60
agagtcataa gagcattgta gaagattaca catactttgc taagggtgtgc tttgataact 120
tcggcgacaa ggtgaagaat tggttgacct ttaatgagcc ccagacattt acttcctttt 180
cctacggaac tgggggtcttt gcccaggtc ggtgctcacc tggactagac tgtgcctacc 240
caactgggaa ttcactcgtc gaggccttaca ctgctggcca taacattctc ctagcccagc 300
tgaggctgt 309

<210> 223
<211> 305
<212> DNA
<213> Zea mays

<400> 223

gcaccacctg ccgtcttctt ctccacagag cagcaagcga aggtgtaact tagctttact 60
acacgatctg caagagtagg cagccaaaat ggagtccaaa tgttgagccc ctcggaaatc 120
ccacaaaggg actggttccc ctctgacttc accttcggtg ccgccacttc agcgtaccaa 180
attgaagggtg cttggaatga agatggaaag ggggaaagca actgggatca cttctgccac 240
aatcatccgg aaaggatact ggacgggagc aattcagaca ttggagcgaa ttcgtaccat 300
atgta 305

<210> 224
<211> 319
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(319)
<223> unsure at all n locations
<400> 224

aaccaccta tctacatcaa ngagaacgga atcgnggatg ttgataccaa ggagacacct 60
ctacccatgg aggatgcctt aaatgactac aaaaggctag attacatcca gcgccacatc 120
gctactctta aggaatcaat agacttggga tcaaagtgtc aaggctactt cgcttgggtc 180
ctgctggaca actttgaatg gttcgccggc ttcaccgaac gttatggcat tgtctacgtc 240
gaccgcaaca ataactgcac gcgctacatg aaggagtctg ccagtgggtg aaacagttca 300
ngccgcgaag aagcccagc 319

<210> 225
<211> 297
<212> DNA
<213> Zea mays

<400> 225

tttacttctt tttcctacgg aactgggggc tttgccccag gtcggtgctc acctggacta 60
gactgtgcct acccaactgg gaattcactc gtcgagcctt aactgctgg ccataacatt 120
ctcctagccc acgctgaggc tgttgatctt tacaacaagc attacaagcg cgacgacacc 180
cgcatagggc ttgcgtttga cgtaatgggt cgtgtgccat acggaacatc gtttctggat 240
aaacaggccg aagaaaggtc ctgggacatc aacctaggat ggttcttaga gccagtg 297

<210> 226
<211> 337
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(337)
<223> unsure at all n locations

<400> 226

ctctgctggg acaactttga atgggtcgcc ggcttcaccg aacgttatgg gcattgtcta 60
cgtcgaccgc aacaataact gcaacgcgct aacatgaagg agtctgcaa gtggttgaaa 120
cagttcaacg ccgcgaagaa gccagcaag aagattctta cgccagctta gaaatcgggg 180
gcctcatgat gtggnctgag ccataaaaa actggtgtgt ggtttcgaac cgaaaatttt 240
ctgttttttt tccgccacga gaggttctgg aggcatactc tccagcaccg tggctaataa 300
cgcatgttc cattcagtct ggccttgtca tgcatgc 337

<210> 227

09975054-101501

<211> 317
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(317)
 <223> unsure at all n locations

 <400> 227

 cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaagggtgt aaccntagct 60
 ttacnacacg atctgcaaga gtaggcagcc aaaatggagt ccaaagtgtg agcccctcgg 120
 aaatcccaca aagggaactgg ttccccctctg acttcaactt cggtgccgcc acttcagcgt 180
 accaaattga agntgcttgg aatgaagatg gaaaggggga aagcaactgg gatcacttct 240
 ggacacaatca tcggaaagga tactggacgg gagcnantca gacattggag cgaantcgta 300
 ccatatgtac aaacggg 317

<210> 228
 <211> 320
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(320)
 <223> unsure at all n locations

 <400> 228

 tgccgnnttc ttctncacag agcagcangc gtaggtgtaa ccttagcttt actacacgnt 60
 ctgcaagagt aggcngccaa aatggantcc aaatgttgag cccctcggaa atcccacaaa 120
 gggactgggtt cccctctgac ttcaccttcg gtgccgccac ttcagcgtac caaattgaag 180
 gtgcttggaa tgaagatgga aagggggaaa gcaactggga tcacttctgc cacaatcatc 240
 cggaaaggat actggacngg agcaattcag acattggagc gaattcgtcc atatgttcaa 300
 aacggacgtc agattgctna 320

<210> 229
 <211> 343
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(343)

<223> unsure at all n locations

<400> 229

gcgacgacac ccgcataggg cttgcgtttg acgtaatggg tcgtgtgcca tacngaacat 60
cgtttctgga taaacaggcc gaagaaaggt catgggacat caacctagga tggttcttag 120
agccagtggg tcgtggtgac tacccttctt ccatgagatc attggctagg gaacgactac 180
ccttcttcaa ggacgagcag aaggagaagc tcgccgggtc ctataacatg ttgggggttaa 240
actactacac ctcacgggtc tccaaaaaca tcgacatctc accaaactat cactgtgctc 300
aacatgacga ccgcctacgc catcaagaag tangggctga cgg 343

<210> 230

<211> 300

<212> DNA

<213> Zea mays

<400> 230

agcagctcaa agctctagtt ctagctagct agcaaagggg gggaaaatgg ctccgcttct 60
cgctgctgcc atgaaccacg ctgcagccca tcttggcctt aggagccacc tagtaggacc 120
caacaatgag agtttctcac ggcaccacct gccgtcttct tctccacaga gcagcaagcg 180
aagggtgaac cttagcttta ctacacgac tgcaagagta ggcagccaaa atggagtcca 240
aatggtgagc ccctcggaat tcccacaaag ggactgggtc ccctctgact tcaccttcgg 300

<210> 231

<211> 295

<212> DNA

<213> Zea mays

<400> 231

ctcaaagctc tagttctagc tagctagcaa agggggggaa aatggctccg cttctcgctg 60
ctgccatgaa ccacgctgca gcccatcctg gccttaggag ccacctagta ggaccaaca 120
atgagagttt ctcacggcac cacctgccgt cttcttctcc acagagcagc aagcgaaggt 180
gtaaccttag ctttactaca cgatctgcaa gagtaggcag ccaaaatgga gtccaaatgt 240
tgagcccctc ggaaatccca caaagggact ggttcccctc tgacttcacc ttcgg 295

<210> 232

<211> 461

<212> DNA

<213> Zea mays

<220>
 <221> unsure
 <222> (1)...(461)
 <223> unsure at all n locations

 <400> 232

 agccacaatt ttccgnaaag gataatggga cggggagcat tgcaagacat tgggccgatt 60
 ncgtaccata tngtacaaaa cggatngtca gattgctnga aggaaatggg catggacgca 120
 tataggttct ctatctcttg gcctagaata ctggcctaaa ggggaacggt ccaaaggagg 180
 tattaaccag gatggcatcg attactacaa aaaggctcat caacttggtg ctagagaatg 240
 gcatagagcc atatgtaaca attttccact gggatgtccc tcaagcacta gaagagaagt 300
 acggcggatt ctagataag actcataaga ggattgtaaa tgattacaaa aacttcgcta 360
 aggtgtgctt cgacaacttt ggtgacaang tgaagaantg gttgancntt aatgaagccc 420
 caaacattta cctcaatttc ccaanngaaa cgggggtcct t 461

<210> 233
 <211> 290
 <212> DNA
 <213> Zea mays

 <400> 233

 ctcgctgagc cttacactgc tggccataac attctcctag cccacgctga ggctgttgat 60
 ctttacaaca agcattacaa gcgcgacgac acccgcatag ggcttgcggt tgacgtaatg 120
 ggctgtgtgc catacggaac atcgtttctg gataaacagg ccgaagaaag gtcctgggac 180
 atcaacctag gatggttctt agagccagtg gttcgtggtg actaccctt ctccatgaga 240
 tcattggcta gggaacgact acccttcttc aaggacgagc agaaggagaa 290

<210> 234
 <211> 290
 <212> DNA
 <213> Zea mays

 <400> 234

 gaaggatctc cttatgatca tgaagaacaa atacggaaac ccacctatct acatcacgga 60
 gaacggaatc ggggatgttg ataccaagga gacacctcta cccatggagg atgccttaaa 120
 tgactacaaa aggctagatt acatccagcg ccacatcgct actcttaagg aatcaataga 180
 cttgggatca aatgtgcaag gctacttcgc ttggtctctg ctggacaact ttgaatgggt 240

09976054-101501

cgccggcttc accgaacggt atggcattgt ctacgtcgac cgcaacaata 290

<210> 235
<211> 291
<212> DNA
<213> Zea mays

<400> 235

cgctgagggt gttgatcttt acaacaagca ttacaagcgc gacgacaccc gcatagggct 60
tgcgtttgac gtaatgggtc gtgtgccata cggaacatcg tttctggata aacaggccga 120
agaaagggtca tgggacatca acctaggatg gttcttagag ccagtgggtc gtggtgacta 180
ccccctctcc atgagatcat tggctagga acgactaccc ttcttcaagg acgagcagaa 240
ggagaagctc gccgggttcct ataacatggt ggggttaaac tactacacct c 291

<210> 236
<211> 288
<212> DNA
<213> Zea mays

<400> 236

gtcataagag cattgtagaa gattacacat actttgctaa ggtgtgcttt gataacttcg 60
gcgacaaggt gaagaattgg ttgaccttta atgagcccca gacatttact tccttttctc 120
acggaactgg ggtctttgcc ccaggteggg gctcacctgg actagactgt gcctacccaa 180
ctgggaattc actcgctgag ccttacactg ctggccataa cattctccta gcccacgctg 240
aggctgttga tctttacaac aagcattaca agcgcgacga caccgcga 288

<210> 237
<211> 288
<212> DNA
<213> Zea mays

<400> 237

gggacatcaa cctaggatgg ttcttagagc cagtgggttcg tggtgactac ccccttctcca 60
tgagatcatt ggctagggaa cgactaccct tcttcaagga cgagcagaag gagaagctcg 120
ccggttccta taacatgttg ggggttaaact actacacctc acggttctcc aaaaacatcg 180
atatctcacc aaactactca cctgtgctca aactgacga cgcctacgcc agtcaagaag 240
ttaacgggcc tgacgggaag cccattgggt ctcctatggg aaatccat 288

TCST-450960

<210> 238
 <211> 290
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(290)
 <223> unsure at all n locations

<400> 238

caagcgcgac gacacccgca tagggcttgc gtttgacgta atgggtcgtg tgccatacgg 60
 aacatcgttt ctggataaac aggccgaaga aaggctctgg gacatcaacc taggatgggtt 120
 cttagagcca gnggttcgtg gtgactaccc cttctccatg agatcattgg ctagggaacg 180
 actacccttc ttcaaggacg agcagaagga gaagctcgcc gggttcctata acatgttggg 240
 gttaaaactac tacacctcac ggttctccaa aaacatcgat atctcaccaa 290

<210> 239
 <211> 292
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(292)
 <223> unsure at all n locations

<400> 239

tgcattggcta cttecgcttgg tctctgctgg ataactttga atggtagcgc ggctacaccg 60
 aacgttatgg cattgtctac gtcgaccgca aaaataacta cacgcgctac atgaaggagt 120
 cagccaagtg gttaaaagag ttcaatactg cgaagaagcc tagcaagaag attattacgc 180
 cagcttaaaa acatggggacc tcgtgatgtg ggtacggtgc cacccatgaa ataaaaacct 240
 agtgtgtggg ttgaaaccta aatttttctt tttctttttt gcaccatgag ag 292

<210> 240
 <211> 291
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(291)
 <223> unsure at all n locations

<400> 240
 ggaaaatggc tccgcttctc gctgctgcc tgaaccacgc tgcagcccat cctggcctta 60
 ggagccacct agnaggaccc aacaatgaga gtttctcacg gcaccacctg ccgtcttctt 120
 ctccacagag cagcaagcga aggtgtaacc ttagctttac tacacgatct gcaagagtag 180
 gcagccaaaa tggagtccaa atgttgagcc cctcggaat cccacaaagg gactggttcc 240
 cctctgactt caccttcggt gccgccactt cagcgtacca aattgaaggt g 291

<210> 241
 <211> 319
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(319)
 <223> unsure at all n locations

<400> 241
 ggatcaaattg tgcaaggcta cttcgcttgg tctctgcngg acaactttga atngttcgcc 60
 ggcttcaccg aacgttatgg cattgtctac gtcgaccgca acaataactg cacgcgctac 120
 atgaaggagt ctgccaagtg gttgaaacag ttcaacgccg cgaagaagcc cagcaagaag 180
 attcttacgc cagcttagaa atcggggggc tcctgatgtg ggtgcagcnc ataaaaaact 240
 ggtgtgtggt ttcgaaccgn natttctgtt tttccgccac gagagttctg gaggcatact 300
 ctccagcacc gtgctaata 319

<210> 242
 <211> 286
 <212> DNA
 <213> Zea mays

<400> 242
 cgcttacgcc agtcaagaag ttaacggggc tgacgggaag cccattggtc ctcttatggg 60
 aaatccatgg atctacatgt accctgaggg cttgaaggat ctcttatga tcatgaagaa 120
 caaatacggg aaccaccta tctacatcac ggagaacgga atcggggatg ttgataccaa 180
 ggagacacct ctacccatgg aggatgcctt aaatgactac aaaaggctag attacatcca 240
 gcgccacatc gctactctta aggaatcaat agacttggga tcaaat 286

<210> 243

<211> 298
 <212> DNA
 <213> Zea mays

 <400> 243

 gtacggcggc ttcctagaaa acggcataga gccatatgta acaattttcc actgggatgt 60
 acctcaagca ctagaagaga agtacggcgg cttcctagat aagagtcata agagcattgt 120
 agaagattac acatactttg ctaaggtgtg ctttgataac ttcggcgaca aggtgaagaa 180
 ttggttgacc tttaatgagc cccagacatt tacttccttt tcctacggaa ctgggggtctt 240
 tgccccaggt cggtgctcac ctggactaga ctgtgcctac ccaactggga attcactc 298

<210> 244
 <211> 326
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1) ... (326)
 <223> unsure at all n locations

<400> 244

 aattgaaggt gcttggaatg aanatggaaa ngnggaaagc aactgggatc acttctgcca 60
 caatcatccg gaaangatac tggacgggag caattcagac attggagcga nttcgtacca 120
 tatgtacaaa acggacgtca gattgctcaa ggaaatgggc atggacgcat ataggttctc 180
 tatctcttgg gccagaata ctgccgaagg aaccaaagaa ggaggtatta acccggatgg 240
 catcaagtac tacagaaacc tcntcaactt gttgctggaa aacggcntan agccatntgt 300
 aacanttttc cactgggatg tacctc 326

<210> 245
 <211> 284
 <212> DNA
 <213> Zea mays

<400> 245

 cccagacatt tacttcattt tcctatggaa ccgggggtctt tgccccagga cgatgctcac 60
 cgggactaga ctgtgccatc ccaactggga attcactcgt cgaaccttac attgctggcc 120
 acaacattct tctagcccac gctgaggctg ttgatcttta caacaagtat tacaagggcg 180
 agaacggccg cataggtctt gcatttgatg taatgggtcg tgtgccatac ggaacatcat 240

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ttctagatga acaggccaaa gaaagggtcca tggacattaa ccta 284

<210> 246
<211> 295
<212> DNA
<213> Zea mays

<400> 246

gaaaggggga aagcaactgg gatcacttct gccacaatca tccggaaagg atactggacg 60
ggagcaattc agacattgga gcgaattcgt accatatgta caaacggac gtcagattgc 120
tcaaggaaat gggcatggac gcatataggt tctctatctc ttggcccaga atactgccga 180
agggaaaccaa agaaggaggt attaacccgg atggcatcaa gtactacaga aacctcatca 240
acttggtgct ggaaaacggc atagagccat atgtaacaat tttccatggg atgta 295

<210> 247
<211> 294
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(294)
<223> unsure at all n locations

<400> 247

caacttggtg ctagaaaacg gcatagagcc atatgtaaca attttccact gggatgtacc 60
tcaagcacta gaagagaagt acggcggctt cctagataan agtcataaga gcattgtaga 120
agattacaca tactttgcta aggtgtgcnt tgataacttc ggcgacaagg tgaagaattg 180
gttgaccttt aatgagcccc agacatttac ttccctttcc tacggaactg gggctctttgc 240
cccaggtcgg tgctcactgg actagactgt gcctacccaa ctgggaattc actc 294

<210> 248
<211> 284
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(284)
<223> unsure at all n locations

<400> 248

gaattgggtg acctttaatg agccccagac atttacttcc ttttctacg gaactggggt 60

09976054-101501

ctttgccccca ggtcgggtgct cacctggact agactgtgcc tacccaactg ggaattcact 120
cgtcgagcct tacactgctg gccataacat tctcctagcc cacgctgagg ctgttgatct 180
ttacaacaag cattacaagc gcgacgacac ncgcataggg cttgcgtttg acgtaatggg 240
tcgtgtgccca tacggaacat cgtttctgga taaacangcc gaag 284

<210> 249
<211> 284
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(284)
<223> unsure at all n locations

<400> 249

ctttacaaca agcattacaa gcgacgacac acccgcatag ggcttncgtt tgacgtaatg 60
ggtcgtgtgc catacggaac atcgtttctg gataaacagg ccgaagaaag gtcctgggac 120
atcaacctag gatggttctt agagccagtg gttcgtgggtg actaccctt ctccatgaga 180
tcattggcta gggaacgact acccttcttc aaggacgagc agaaggagaa gctcgccggt 240
tcctataaca tggtgggggt aaactactac acctcacggt tctc 284

<210> 250
<211> 304
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(304)
<223> unsure at all n locations

<400> 250

agaagattac acatactttg ctaaggtgtg ctttgataac ttcggcgaca aggtgaagaa 60
ttggttgacc tttaatgagc cccagacatt tacttcctt tcttacggaa ctgggggtctt 120
tgccccaggt cgggtgtcac ctggactaga ctgtgcctac ccaactggga attcactcgt 180
cgagccttac actgctggcc ataacattct cctagccan gctgaggctg ttgatcttta 240
caaccnngca ttacangcgc gacgacaccc gcatagggct tgcgntttga cgtaatgggt 300
ngtg 304

09976054-101501

<210> 251
 <211> 287
 <212> DNA
 <213> Zea mays

<400> 251

caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgctgct 60
 gccatgaacc acgctgcagc ccatcctggc cttaggagcc acctagtagg acccaacaat 120
 gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaagggtg 180
 aaccttagct ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaagtgtg 240
 agcccctcgg aaatcccaca aagggatggt tcccctctga cttcact 287

<210> 252
 <211> 291
 <212> DNA
 <213> Zea mays

<400> 252

aatggctcca cttctcgccg cagccatgaa ccacgctacc catccagtcc ttagaagcca 60
 tctaggaccc aacaatgaga gtttctcagc acaccaccta tcttcttcac cacaaagcag 120
 taagcgaagg tttaacctta gctttacgcc acgatctgca agggtaggca atgaaaatgg 180
 agtccaattg ttgagcccct cggaatccc tcgaaggac tggttcccct ctgacttcat 240
 ctttggtgcc gccacttcag cgtaccaa at tgaagggtgca tggaacgaag a 291

<210> 253
 <211> 285
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1) ... (285)
 <223> unsure at all n locations

<400> 253

gngctacatg aaggagtctg ccaagtgggt ganacagttc aacgccgcga agaagcccag 60
 caagaagatt cttacgccag cttagaaatc gggggcctca tgatgtgggt gcagcccata 120
 aaaaactggt gtgtggtttc gaaccgaaaa ttttctgttt ttttccgccca cgagangttc 180
 tggaggcata ctctccagca ccgtggctaa taacgcattg ttccaattca gtctggcctt 240

gtcatgcatg caatanttaa agtgatgggt ttccctgttt caaaa 285

<210> 254
<211> 278
<212> DNA
<213> Zea mays

<400> 254

gccatatgta acaattttcc actgggatgt acctcaagca ctagaagaga agtacggcgg 60
cttcctagat aagagtcata agagcattgt agaagattac acctacttcg ctaagggtgtg 120
ctttgataac ttccggcgaca aggtgaagaa ttggttgacc tttaatgagc cccagacatt 180
tacttccttt tcctacggaa ctggggtctt tgccccaggg cggtgctcac ctggactaga 240
ctgtgcctac ccaactggga attcactcgt cgagcctt 278

<210> 255
<211> 282
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(282)
<223> unsure at all n locations

<400> 255

cggcgacaag gtgaagaatt ggttgacctt taatgagccc cagacattta cttccttttc 60
ctacggaact ggggtctttg cccaggtcg gtgctnacct ggactagact gtggctaccc 120
aactgggaat tcactcgtcg agccttacac tgctggccat aacattctcc tagcccacgc 180
tgaggctgtt gatctttaca acaagcatta caagcgcgac gacacccgca tagggcttgc 240
gtttgacgta atgggtcgtg tgccatacng aacatcgttt ct 282

<210> 256
<211> 288
<212> DNA
<213> Zea mays

<400> 256

caaaactcta gctagctagc agggggggaa atggctccac ttctcgccgc agccatgaac 60
cacgctgccc atccagtcct tagaagccat ctaggaccca acaatgagag tttctcacga 120
caccacctat cttcttcacc gcaaagcagt aagcgaaggt ttaaccttag ctttacgcca 180

09976054-101501

cgatctgcaa gagtaggcaa tcaaaatgga gtccaattgt tgagcccttc ggaaatccct 240
cgaagggact ggttcccctc cgattcatct ttggtgccgc cacttcag 288

<210> 257
<211> 277
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(277)
<223> unsure at all n locations

<400> 257

gaagaattgg ttgaccttta atgagcccca gacatttact tccttttctt acggaactgg 60
ggtctttgcc ccaggctcgg gtccacctgg actagactgt gcctacccaa ctgggaattc 120
actcgtcgag ccttacactg ctggccataa cattctccta gcccacgctg aggctgttga 180
tctttacaac aagcattaca agcgcgacga caccgcata gggcttgctg ttgacgtaat 240
gggtcgtgtg ccatacggaa catcgtttct ggncaaa 277

<210> 258
<211> 274
<212> DNA
<213> Zea mays

<400> 258

gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgtgct gccatgaacc 60
acgctgcagc ccattcctggc cttaggagcc acctagtagg acccaacaat gagagtttct 120
cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaagggtg aaccttagct 180
ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaagtgtg agcccctcgg 240
aaatcccaca aagggactgg ttcccctctg actt 274

<210> 259
<211> 274
<212> DNA
<213> Zea mays

<400> 259

cttataccca gaaggcctaa aggatattct tatgatcatg aagaacaaat atggaaaccc 60
acctatctac atcactgaga acggaatcgg ggatgttgat acaaaggaga aacctctacc 120

catggaggct gccttaaagt actacaaaag gctagattac atccagcgcc acatctcaac 180
tctcaaggag tcaatagact tgggagcaaa tgtgcatggc tacttcgctt ggtctctgct 240
ggataacttt gaatggtacg ccggtacac cgaa 274

<210> 260
<211> 293
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(293)
<223> unsure at all n locations

<400> 260

cgggacgtgg ncnanaagct ctagttctag ctagctagca aaggggggga aaatggctcc 60
gcttctcgct gcagcnatga accacgctgc agcccatcct ggccttagga gccacctagt 120
aggacccaac aatgagagtt tctcacggca ccacctgccg tcttcttctc cacagagcag 180
caagcgaagg tgtaacctta gctttactac acgatctgca agagtaggca gccaaaatgg 240
agtccaaatg ttgagcccct cggaatccc acaaaggac tggttcccct ctg 293

<210> 261
<211> 279
<212> DNA
<213> Zea mays

<400> 261

cttcgctaag gtgtgctttg ataacttcgg cgacaagggtg aagaattggt tgacctttaa 60
tgagccccag acatttactt ctttttccta cggaactggg gtctttgccc cagggcggtg 120
ctcacctgga ctagactgtg cctacccaac tgggaattca ctgctcgagc cttacactgc 180
tggccataac attctcctag cccacgctga ggctgttgat ctttacaaca agcattacaa 240
gcgcgacgac acccgcatag ggcttgcggt tgacgtaat 279

<210> 262
<211> 274
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(274)
<223> unsure at all n locations

097654-101501

<400> 262
 acggaactgg ggtctttgcc ccaggctcggg gctcacctgg actagactgt gcctacccaa 60
 ctgggaattc actcgtcgag ccttacantg ctggccataa cattctccta gcccacgctg 120
 aggctgttga tctttacaac aagcattaca agcgcgacga caccgcata gggcttgctg 180
 ttgangtaat gggctcgtgtg ccatacggaa catcgtttct ggataaacag gccgaagaaa 240
 ggtcctggga catcaaccta ggatggttct taga 274

<210> 263
 <211> 276
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(276)
 <223> unsure at all n locations

<400> 263
 ggcatggacg catatagggt ctctatctct tggcctagaa tactgcctan nggaacgggtc 60
 gaaggaggta ttaaccagga tggcatcgat tactacaaaa ggctcatcaa cttgttgcta 120
 gagaatggca tagagccata tgtaacaatt ttccactggg atgtccctca agcactagaa 180
 gagaagtacg gcggtattctt agataagact cataagagga ttgtaaatga ttacaaaaac 240
 ttcgctaagg tgtgcttcga caactttggt gacaag 276

<210> 264
 <211> 276
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(276)
 <223> unsure at all n locations

<400> 264
 atgagcccca gacatttact tccttttctt acggaactgg ggtctttgcc ccaggctcggg 60
 gctcacctgg actagactgt gcctacccaa ctngaattc actcgtcgag ccttacactg 120
 ctggccataa cattctccta gcccacgctg aggctgttga tctttacaac aagcattaca 180
 agcgcgacga caccgcata nggcttgctg ttgacgtaat gggctcgtgtg ccatacggaa 240

catcggtttct ggataaacag gccgaagaaa ggtcct 276

<210> 265
<211> 274
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(274)
<223> unsure at all n locations

<400> 265

ggttctccaa aaacatcgat atctcaccaa actactcacc tgtgctcaac antgacgacg 60
cctacgccag tcaagaagtt aacgggcctg acgggaagcc cattggtcct cctatgggaa 120
atccatggat ctacatgtac cctgagggct tgaaggatct ccttatgatc atgaagaaca 180
aatacggaaa cccacctatc tacatcacgg agaacggaat cggggatgtt gataccaagg 240
agacacctct acccatggag gatgccttaa atga 274

<210> 266
<211> 280
<212> DNA
<213> Zea mays

<400> 266

gaactgggggt ctttgcccca ggtcgggtgct cacctggact agactgtgcc tacccaactg 60
ggaattcact tcgtcgagcc ttacactgct ggccataaca ttctcctagc ccacgctgag 120
gctggttgatc tttaacaaca gcattacaag cgcgacgaca cccgcatagg gcttgcgttt 180
gacgtaatgg gtcgtgtgcc atacggaaca tcgtttctgg ataaacaggc cgaagaaagg 240
tcctgggaca tcaacctagg atggttctta gagccagtgg 280

<210> 267
<211> 279
<212> DNA
<213> Zea mays

<400> 267

cattgtagaa gattacacat actttgctaa ggtgtgcttt gataacttcg gcgacaagg 60
gaagaattgg ttgaccttta atgagcccca gacatttact tccttttctt acggaactgg 120
ggtctttgcc ccaggtcggt gctcacctgg actagactgt gcctacccaa ctgggaattc 180

actcgtcgag ccttacactg ctggccataa catctcctag cccacgctga ggctgttgat 240
ctttacaaca agcattacaa gcgcgacgac acccgcata 279

<210> 268
<211> 271
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(271)
<223> unsure at all n locations

<400> 268

gntaacgggc ctgacgggaa gccattggt cctcctatgg gaaatccatg gatctacatg 60
taccctgagg gcttgaagga tctccttatg atcatgaaga acaaatacgg aaaccacct 120
atctacatca cggagaacgg aatcggggat gttgatacca aggagacacc tctacccatg 180
gaggatgcct taaatgacta caaaaggcta gattacatcc agcgccacat cgctactctt 240
aaggaatcaa tagacttggg atcaaattgtg c 271

<210> 269
<211> 291
<212> DNA
<213> Zea mays

<400> 269

ttcggtttca cactttttca gagaagatta cacatacttt gctaagggtg gctttgataa 60
cttcggcgac aagggtgaaga attggttgac ctttaatgag cccagacat ttacttcctt 120
ttcctacgga actgggggtct ttgccccagg tcggtgctca cctggactag actgtgccta 180
cccaactggg aattcactcg tcgagcctta cactgctggc cataacattc tcttagccca 240
cgctgaggct gttgatcttt acaacaagca ttacaagcgc gacgacaccc g 291

<210> 270
<211> 278
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(278)
<223> unsure at all n locations

<400> 270

09976054-101501

gcagctcaaa gctctagttc tagctagcta gcaaangggg ggaaaatggc tccgcttctc 60
gctgctgcc tgaaccacgc tgcagcccat cctggcctta ggagccacct agtaggaccc 120
aacaatgaga gtttctcacg gcaccacctg ccgtcttctt ctccacagag cagcaagcga 180
aggtgtaacc ttagctttac tacacgatct gcaagagtag gcagccaaaa tggagtccaa 240
atgttgagcc cctcggaaat cccacaaagg gactgggt 278

<210> 271
<211> 312
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(312)
<223> unsure at all n locations

<400> 271

attcgtaacca tatgtacaaa acggacgtca gattgctcaa ggaaatgggc atggacgcat 60
aggttctcta tctcttggcc cagaatactg ccgaaggaac caaagaagga ggtattaacc 120
cgnatggcat caagtactac agaaacctca tcaacttggt gctagaaaac ggcatagagc 180
catatgtaac aattttccac tgggatgtac ctcaagcact agaagagaag tacggcggct 240
tcctagataa gagtcataag agcattgtag aagattacac atactttgct aaggtgtgct 300
ttgataactt cg 312

<210> 272
<211> 276
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(276)
<223> unsure at all n locations

<400> 272

gagccccaga catttacttc cttttcctac ggaactgggg tctttgcccc aggtcgggtgc 60
tcacctggac tagactgtgc ctacccaact gggaattcac tcgtcgagcc ttacactgct 120
ggccataaca ttctcctagc ccacgctgag gctgttgatc tttacaacaa gcattacaag 180
cgcgacgaca cccgcatagg gcttgcgttt gacgtaatgg gtcgtgtgcc atacggaaca 240

05976054-101501

tcgttctgga taaacaggcc gaagaaangt cctggg 276

<210> 273
<211> 267
<212> DNA
<213> Zea mays

<400> 273

ggccataaca ttctcctagc ccacgctgag gctgttgatc ttacaacaa gcattacaag 60
cgcgacgaca ccgcgatagg gcttgcgttt gacgtaatgg gtcgtgtgcc atacggaaca 120
tcgtttctgg ataaacaggc cgaagaaagg tcctgggaca tcaacctagg atggttctta 180
gagccagtgg ttctgtgtga ctaccccttc tccatgagat cattggctag ggaacgacta 240
cccttcttca aggacgagca gaaggag 267

<210> 274
<211> 276
<212> DNA
<213> Zea mays

<400> 274

gcatctagg acccaacaat gagagtttct cacgacacca cctatcttct tcaccacaaa 60
gcagtaagcg aaggtttaac cttagcttta cgccacgac tgcaagggtg ggcaatgaaa 120
atggagtcca attgttgagc ccctcgaaa tcctcgaag ggactgggtc ccctctgact 180
tcctctttgg tgccgccact tcagcgtacc aaattgaagg tgcattggaac gaagatggaa 240
aggggggaaag caattgggat cacttctgcc acaatt 276

<210> 275
<211> 267
<212> DNA
<213> Zea mays

<400> 275

caaaaacatc gacatctcac caaactactc acctgtgctc aacactgacg acgcctacgc 60
cagtcaagaa gttaacgggc ctgacgggaa gccattgggt cctcctatgg gaaatccatg 120
gatctacatg taccctgagg gcttgaagga tctccttatg ataatagaaga acaaatacgg 180
aaaccacatc atctacatca ccgagaacgg aatcggggat gttgatacca aagagacacc 240
tctacccatg gaggtgcct taaatga 267

<210> 276
 <211> 271
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(271)
 <223> unsure at all n locations

 <400> 276

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 aagaagattc ttacgccagc ttagaaatcg ggggcctcat gatgtgggtg cagcccataa 120
 aaaactgggtg tgtggtttcg aaccgaaaat tttctgtttt tttccgccac gagangttct 180
 ggaggcatatc tctccagcac cgtggctaata aacgcattgt tccaattcag tctggccttg 240
 tcatgcatgc aataaataaa gtgatggggtt t 271

<210> 277
 <211> 285
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(285)
 <223> unsure at all n locations

 <400> 277

 cggnacntgg ngnaaggnag tctgccaaagt ggttgaaaca gttcaacgcc gcgaagaagc 60
 ccagcaagaa gattcttacg ccagcttaga aatcgggggc ctcatgatgt ggggtgcagcc 120
 cataaaaaaac tgggtgtgtg tttcgaaccg aaaattttct gtttttttcc gccacgagag 180
 gttctggagg catactctcc agcaccgtgg ctaataacgc attgttccaa ttcagtctgg 240
 ccttgatcatg catgcaataa ataaagtgat ggggtttcct gtttc 285

<210> 278
 <211> 268
 <212> DNA
 <213> Zea mays

 <400> 278

 cggaaacca cctatctaca tcacggagaa cggaatcggg gatgttgata ccaaggagac 60
 acctctaccc atggaggatg ccttaaatga ctacaaaagg ctagattaca tccagcgcca 120

05976054-101501

catcgctact cttaaggaat caatagactt gggatcaaat gtgcaaggct acttcgcttg 180
gtctctgctg gacaactttg aatggttcgc cggcttcacc gaacgttatg gcattgtcta 240
cgtcgaccgc aacaataact gcacgcgc 268

<210> 279
<211> 318
<212> DNA
<213> Zea mays

<400> 279

gcagctcaaa gctctagttc tagctagcta gcaaagggg ggaaaatggc tccgcttctc 60
gctgctgcca tgaaccacgc tgcagcccat cctggcctta ggagccacct agtaggaccc 120
aacaatgaga gtttctcag gcaccacctg cgtcttctt ctccacagag cagcaagcga 180
agggtgtaact tagctttact acacgatctg caagagtagg cagccaaaat ggagtccaaa 240
tggtgagccc ctcggaatc ccacaaaggg actggttccc tctgacttca cttcggtgcc 300
ggcaacttca gcgtacca 318

<210> 280
<211> 264
<212> DNA
<213> Zea mays

<400> 280

ctctgctgga taactttgaa tggtacgccg gctacaccga acgttatggc attgtctacg 60
tcgaccgcaa aaataactac acgcgctaca tgaaggagtc agccaagtgg ttaaaagagt 120
tcaatactgc gaagaagcct agcaagaaga ttattacgcc agcttaaaaa catgggacct 180
cgtgatgtgg gtacggtgcc acccatgaaa taaaaaccta gtgtgtgggt tgaaacctaa 240
atctttcttt ttcttttttg cacc 264

<210> 281
<211> 264
<212> DNA
<213> Zea mays

<400> 281

caaagctcta gttctagcta gctagcaaag ggggggaaaa tggtccgct tctcgctgct 60
gccatgaacc acgctgcagc ccacctggc ctaggagacc acctagtagg acccaacaat 120
gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaaggtgt 180

aaccttagct ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaatgttg 240
agccccctcg aaatcccaca aagg 264

<210> 282
<211> 265
<212> DNA
<213> Zea mays

<400> 282

gggatgttga taccaaggag acacctctac ccatggagga tgccttaa at gactacaaaa 60
ggctagatta catccagcgc cacatcgcta ctcttaagga atcaatagac ttgggatcaa 120
atgtgcaagg ctacttcgct tgggtctctgc tggacaactt tgaatggttc gccggcttca 180
ccgaacgtta tggcattgtc tacgtcgacc gcaacaataa ctgcacgcgc tacatgaagg 240
agtctgcca gtggttgaaa cagtt 265

<210> 283
<211> 284
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(284)
<223> unsure at all n locations

<400> 283

tttgcccan gtcggtgctc acctggacta gactgtgnct acccaactgg gaattcactc 60
gtccgagcct tacactgctg gccataacat tctcctagcc cacgctgagg ctgttgatct 120
ttacaacaag cattacaagc gcgacgacac ccgcataggg cttgcgtttg acgtaatggg 180
tcgtgtgcca tacggaacat cgtttctgga taaacaggcc gaagaaangt ctgggacatc 240
aacctaggat gggtcttaga gccagtgggt cgtggtgact ancc 284

<210> 284
<211> 270
<212> DNA
<213> Zea mays

<400> 284

ataaactact acacctcaat attctccaaa catatcgaca tctcaccaaa atactcgctt 60
gttctcaaca ctgacgacgc ctacgctagt caagaaacgt atgggcctga cgggaaaccc 120

attggtcctc ctatgggaaa tccgtggatc tacttatacc cagaaggcct aaaggatatc 180
 cttatgatca tgaagaacaa atatggaaac ccacctatct acatcactga gaacggatcg 240
 gggatgttga taaaaggag aaacctctac 270

<210> 285
 <211> 269
 <212> DNA
 <213> Zea mays

<400> 285

agcagctcaa agctctagtt ctagctagct agcaaagggg gggaaaatgg ctccgcttct 60
 cgctgctgcc atgaaccacg ctgcagccca tcctggcctt aggagccacc tagtaggacc 120
 caacaatgag agtttctcac ggcaccacct gccgtcttct tctccacaga gcagcaagcg 180
 aaggtgtaac cttagcttta ctacacgac tgcaagagta ggcagccaaa atggagtcca 240
 aatgttgagc ccctcgaaa tcccacaaa 269

<210> 286
 <211> 264
 <212> DNA
 <213> Zea mays

<400> 286

tgagccccag acatttactt ctttttcta cggaactggg gtctttgccc caggtcggta 60
 ctcacctgga ctagactgtg cctacccaac tgggaattca ctcgtcgagc cttacactgc 120
 tggccataac attctcctag cccacgctga ggctgttgat ctttacaaca agcattacaa 180
 gcgcgacgac acccgcatag ggcttgcggt tgacgtaatg ggtcgtgtgc catacggaac 240
 atcgtttctg gataaacagg ccga 264

<210> 287
 <211> 263
 <212> DNA
 <213> Zea mays

<400> 287

gttgggggta aactactaca ctcacgggtt ctccaaaaac atcgatatct caccaaacta 60
 ctcacctgtg ctcaacactg acgacgccta cgccagtcaa gaagttaacg ggctgacgg 120
 gaagcccatt ggtcctccta tgggaaatcc atggatctac atgtaccctg agggcttgaa 180

ggatctcctt atgatcatga agaacaaata cggaaaccca cctatctaca tcacggagaa 240
cggaatcggg gatgttgata cca 263

<210> 288
<211> 274
<212> DNA
<213> Zea mays

<400> 288

atttgtgcag gaatcgggga tgttgatacc aaggagacac ctctacccat ggaggatgcc 60
ttaaatgact ataaaaggct agattacatc cagcgccaca tcgctactct taaggaaatca 120
atagacttgg gatcaaattgt gcaaggctac ttcgcttggt ctctgctgga caactttgaa 180
tggttcgccg gcttcaccga acgttatggc attgtctacg tcgaccgcaa caataactgc 240
acgcgctaca tgaaggagtc tgccaagtgg ttga 274

<210> 289
<211> 299
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(299)
<223> unsure at all n locations

<400> 289

aaagctctag ttctagctag cnagcaaagg gggggaaaat ggctccgctt ctgcngctg 60
ccatgaacca cgctgcagcc cancctggcc ttaggagcca cctagtagga cccaacaan 120
gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaaggtgn 180
aaccnnagcn ttactacacg atcngcaaga gtaggcagcc aaaatggagt tcaaatgttg 240
agccccctcg aaattccaca aagggactgg ttccccctctg acttnacctt cggtggngg 299

<210> 290
<211> 262
<212> DNA
<213> Zea mays

<400> 290

ctctagctag ctagcagggg gggaaatggc tccacttctc gccgcagcca tgaaccacgc 60
tgcccatcca gtccttagaa gccatctagg acccaacaat gagagtttct cacgacacca 120

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cctatcttct tcaccgcaaa gcagtaagcg aaggtttaac cttagcttta cgccacgatc 180
 tgcaagagta ggcaatcaaa atggagtcca attgttgagc ccttcggaaa tccctcgaag 240
 ggactgggtc ccctccgact tc 262

<210> 291
 <211> 261
 <212> DNA
 <213> Zea mays
 <400> 291

ggaaaatggc tccgcttctc gctgctgcca tgaaccacgc tgcagcccat cctggcctta 60
 ggagccacct agtaggaccc aacaatgaga gtttctcacg gcaccacctg ccgtcttctt 120
 ctccacagag cagcaagcga aggtgtaacc ttagctttac tacacgatct gcaagagtag 180
 gcagccaaaa tggagtccaa atgttgagcc cctcggaaat cccacaaagg gactgggttc 240
 cctctgactt caccttcggt g 261

<210> 292
 <211> 424
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(424)
 <223> unsure at all n locations
 <400> 292

acagctctag ttctanctan ctancaangg gngggaaaat ggctccgctt ctgctgctg 60
 ccatgaacca cnetgcancc catcctggcc ttaggagcca cctagtacga cccaacattg 120
 agagtttctc acggcaccac ctgccgtctt cttctccaca gagcagcatc gcnaaggtgt 180
 aaccttagcn ttactacacg atctgcaaga gtaggcagcc aaantggant cnaantgttg 240
 agccccncng aaatncaca aagggacngg tncctctctg acttcacctt cgggtgcncgc 300
 cncntcagcg tancanggnt caatgtgctt ggaanganga tggaancggg gaaancgnct 360
 gggatnantt cngcganagt catccgaaa ngatatggac tggancactt cagacattgg 420
 atca 424

<210> 293
 <211> 306
 <212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1) ... (306)

<223> unsure at all n locations

<400> 293

gctagcnagc naaggggggg anaatngctc cgcttctcgc tgctgccatg anccacgctg 60

cagcccatcc tggccttagg agccacctag taggacccaa caatgagagt ttctcacggc 120

accacctgcc gtcttcttct ccacagagca gcaagcnaag gtgtaacctt agctttacta 180

cacgatctgc aagantaggc agccaaaatg gagtccaaat gttgagcncc tcggaaatcc 240

cacaaaggga ctggttcncn tctgacttca anttgggtggn ggcaattnag gtaacaaatt 300

gaaggt 306

<210> 294

<211> 277

<212> DNA

<213> Zea mays

<400> 294

gcagctcaaa actctagcta gctaccaggg gggaaaatgg ctccacttct cgccgcagcc 60

atgaaccacg ctacccatcc agtccttaga agccatctag gacccaacaa tgagagtttc 120

tcacgacacc acctatcttc ttcaccacaa agcagtaagc gaaggtttaa ccttagcttt 180

acgccacgat ctgcaagggt aggcaatgaa aatggagtcc aattgttgag cccctcggaa 240

atccctcgaa gggactgggt cccctctgac ttcattc 277

<210> 295

<211> 260

<212> DNA

<213> Zea mays

<400> 295

cgtcaataga cttggggagca aatgtgcatg gctacttcgc ttggtctctg ctggataact 60

ttgaatggta cgccggctac accgaacggt atggcattgt ctacgtcgac cgcaaaaata 120

actacacgcg ctacatgaag gagtcagcca agtgggttaa agagttcaat actgcgaaga 180

agcctagcaa gaagattatt acgccagctt aaaaacatgg gacctcgtga tgtgggtacg 240

gtgccacca tgaaataaat 260

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<210> 296
<211> 258
<212> DNA
<213> Zea mays

<400> 296

gccaaagtggg tgaaacagtt caacgccgcg aagaagccca gcaagaagat tcttacgcca 60
gcttagaaat cgggggcctc atgatgtggg tgcagcccat aaaaaactgg tgtgtgggtt 120
cgaaccgaaa attttctggt tttttccgcc acgagagggt ctggaggcat actctccagc 180
accgtggcta ataacgcatt gttccaattc agtctggcct tgtcatgcat gcaataaata 240
aagtgatggg tttccctg 258

<210> 297
<211> 266
<212> DNA
<213> Zea mays

<400> 297

agcaattcag acattggagc gaattcgtac catatgtaca aaacggacgt cagattgctc 60
aaggaaatgg gcatggagc atatatgttc tctatctctt ggcccagaat actgccgaag 120
gaaccaaaga aggaggtatt aaccgggatg gcatcaagta ctacagaaac ctcataact 180
tgttgctaga aaacggcata gagccatatg taacaatttc cactgggatg tacctcaagc 240
actagaagag aagtacggcg gcttcc 266

<210> 298
<211> 270
<212> DNA
<213> Zea mays

<400> 298

tacaagcgcg acgacacccg catagggcct gcgtttgacg taatgggtcg tgtgccatac 60
ggaacatccg tttctggata aacaggccga agaaaggcca tgggacatca acctaggatg 120
gttcttagag ccagtgggtc gtgggtgacta ccccttctcc atgagatcat tggctaggga 180
acgactaccc ttcttcaagg acgagcagaa ggagaagctc gccggttcct ataacatgtt 240
gggggttaaac tactacacct cacggttctc 270

<210> 299
<211> 287

<212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(287)
 <223> unsure at all n locations

 <400> 299

 attacaccta cttcgctaag gtgtgctttg ataacttcgg cgacaagggtg aagaattggt 60
 tgacctttaa tgagccccag acatttactt ccttttccta cggaactggg gtctttgccc 120
 cagggcggtg ctcacctgga ctagactgtg cctacccaac tgggaattca ctcgtcgagc 180
 cttacactgc tggccataac attctcctag cccacgctga ggctgttgat ctttacaaca 240
 agcatacaag gcgacgacac ccgcatangg ctgcgttgac gtatggg 287

<210> 300
 <211> 252
 <212> DNA
 <213> Zea mays

 <400> 300

 cttatgatca tgaagaacaa atacggaaac ccacctatct acatcacgga gaacggaatc 60
 ggggatgttg ataccaagga gacacctcta cccatggagg atgccttaaa tgactacaaa 120
 aggctagatt acatccagcg ccacatcgct actcttaagg aatcaataga cttgggatca 180
 aatgtgcaag gctacttcgc ttgggtctctg ctggacaact ttgaatgggt cgccggcttc 240
 accgaacggt at 252

<210> 301
 <211> 256
 <212> DNA
 <213> Zea mays

 <400> 301

 cttctccatg agatcattgg ctagggaacg actacccttc ttcaaggacg agcagaagga 60
 gaagctcgcc ggttcctata acatgttggg gttaaactac tacacctcac ggttctccaa 120
 aaacatcgac atctcaccaa actactcacc tgtgctcaac actgacgacg cctacgccag 180
 tcaagaagtt aacgggcctg acaggaagcc cattgggtcct cctatgggaa atccatggat 240
 ctacatgtac cctgag 256

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<210> 302
 <211> 255
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(255)
 <223> unsure at all n locations

 <400> 302

 tcaacttggt gctagaaaac ggcatagagc catatgtaac aatttnccac tgggatgtac 60
 ctcaagcact agaagagaag tacggcggct tcctagataa gagtcataag agcattgtag 120
 aagattacac atactttgct aagggtgtgct ttgataactt cggcgacaag gtgaagaatt 180
 gggtgacctt taatgagccc cagacattta cttccttttc ctacggaact ggggtctttg 240
 ccccggtcg gtgct 255

<210> 303
 <211> 264
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(264)
 <223> unsure at all n locations

 <400> 303

 cggacgctgg tgnactacaa aaggctagat tacatccagc gccacatcgc tactcttaag 60
 gaancaatag acttgggatc aaatgtgcaa ggctacttcg cttggtctct gctggacaac 120
 tttgaatggt tcgccggctt caccgaacgt tatggcattg tctacgtcga ccgcaacaat 180
 aactgcacgc gctacatgaa ggagtctgcc aagtgggtga aacagttcaa cgccgcgaag 240
 aagcccagca agaagattct tacg 264

<210> 304
 <211> 252
 <212> DNA
 <213> Zea mays

 <400> 304

 attacacata ctttgctaag gtgtgctttg ataacttcgg cgacaagggtg aagaattggt 60
 tgacctttaa tgagccccag acatttactt ccttttccta cggaactggg gtctttgccc 120

caggtcggtg ctcacctgga ctagactgtg cctaccaaac tgggaattca ctcgtcgagc 180
 cttacactgc tggccataac attctcctag cccacgctga ggctgttgat ctttacaaca 240
 agcattacaa gg 252

<210> 305
 <211> 279
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(279)
 <223> unsure at all n locations

<400> 305

ctcnncgagc cttacacngc tggccataan attctcctag cccangnnga ngnggttgat 60
 ctttacaaca agcatnanaa ncgcgacgac acncgnatag ggcttgcggt tgacgtaatg 120
 ggtcgtgtgc catanggaac atcgtttctg gataaacagg cngaagaaag gtcntgggac 180
 atcaacctag gatggttctt agagncagtg gttcgtgggtg actanccctt ctccatgaga 240
 tcattggcta gggaacgact acccttcttc aaggacgag 279

<210> 306
 <211> 251
 <212> DNA
 <213> Zea mays

<400> 306

caaagaagga ggtattaacc cggatggcat caagtactac agaaacctca tcaacttggt 60
 gctagaaaac ggcatagagc catatgtaac aattttccac tgggatgtac ctcaagcact 120
 agaagagaag tacggcggct tctagataa gagtcataag agcattgtag aagattacac 180
 atactttgct aagggtgtgct ttgataactt cggcgacaag gtgaagaatt ggttgacctt 240
 taatgagccc c 251

<210> 307
 <211> 254
 <212> DNA
 <213> Zea mays

<400> 307

agcagctcaa agctctagtt ctagctagct agcaaagggg gggaaaatgg ctccgcttct 60

cgctgctgcc atgaaccacg ctgcagccca tcttggcctt aggagccacc tagtaggacc 120
 caacaatgag agtttctcac ggcaccacct gccgtcttct tctccacaga gcagcaagcg 180
 aagggtgtaac cttagcttta ctacacgacg tgcaagagta ggcagccaaa atggagtcca 240
 aatgttgagc ccct 254

<210> 308
 <211> 275
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(275)
 <223> unsure at all n locations

<400> 308

gcgctacatg aaggagtctg ccaagtgggt gaancagttc aacgccgcga agangcccag 60
 caagaagatt cttacgccag cttagaaatc gggggcctca tgatgtgggt gcagcccatn 120
 aaaaactggg gtgtgggttc gaaccgaaaa ttttctgttt ttttccgcca cgagagggtc 180
 tggaggcata ctctccagca ccgtggctaa taacgcattg ttccaattca gtctggcctt 240
 gtcattgcag cataantnga tgatgggttc cctgt 275

<210> 309
 <211> 248
 <212> DNA
 <213> Zea mays

<400> 309

ctctagttct agctagctag caaagggggg gaaaatggct ccgcttctcg ctgctgcat 60
 gaaccacgct gcagcccatc ctggccttag gagccacctg gtaggaccca acaatgagag 120
 tttctcacgg caccacctgc cgtcttcttc tccacagagc agcaagcgaa ggtgtaacct 180
 tagctttact acacgatctg caagagtagg cagccaaaat ggagtccaaa tggtgagccc 240
 ctcgaaa 248

<210> 310
 <211> 261
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure

<222> (1)...(261)
 <223> unsure at all n locations
 <400> 310
 cggaacgctgg ccggcgacaa ggtgaagaat tgggtgacct ttaatgagcc ccagacattt 60
 acntcctttt cctacggaac tgggggtcttt gccccagggtc ggtgctcacc tggactagac 120
 tgtgcctacc caactgggaa ttcactcgtc gagccttaca ctgctggcca taacattctc 180
 ctagccacg ctgaggctgt tgatctttac aacaagcatt acaagcgga cgacacccgc 240
 atagggcttg cgtttgacgt a 261

<210> 311
 <211> 300
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(300)
 <223> unsure at all n locations

<400> 311
 aacaagcatt acaagcgga cgacacccgg catagggctt gcgtttgacc gtaatgggtc 60
 gtgtgccata cggaacatcg tttctggata aacaggccga agaaagggtcc tgggacatca 120
 acctaggatg gttcttagag ccagtgggtc gtgggtgacta cccctctoca tgagatcatt 180
 ggctagggaa cgactaccct cttcaaggac gagcanaagg agaagctcgc cggttcctat 240
 aacagttggg gttaactata cacctcaggt tctccaaaaa catcgatatc tcaccaacta 300

<210> 312
 <211> 332
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(332)
 <223> unsure at all n locations

<400> 312
 cttgcatttg acgtaatggg tcgtgtccca tacganaagt cggcgtttac ggatcaacag 60
 gccgaacaaa ggtcctggga cattaaccta ggatggttct tggagccggg tgttcgtggg 120
 gactaatccn ttctccatga gatcattggc aagggaacga ctacccttct tcaactgacaa 180

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agagcaagag aagctagtgg gttcctatga catggtgggg ttaaactatt atacctcaag 240
gttctctaaa aacatcgata tctcaccaaaa ctactcgcca gtgctcaaca ctgacgacgc 300
atatgccagt caagaaacga atgggcctga cg 332

<210> 313
<211> 258
<212> DNA
<213> Zea mays

<400> 313

gttgcgctgt gtgttat tttt ttatgaaata aaaatctaga tggttgtgtt tatgatagat 60
gttactatac ggtegcactt gccgtcaatt caatttttat ttgtgcagga atcggggatg 120
ttgataccaa ggagacacct ctacccatgg aggatgcctt aaatgactac aaaaggctag 180
attacatcca gcgccacatc gctactctta aggaatcaat agacttggga tcaaattgtgc 240
aaggctactt cgcttggt 258

<210> 314
<211> 244
<212> DNA
<213> Zea mays

<400> 314

caacttggtg ctagaaaacg gcatagagcc atatgtaaca attttccact gggatgtacc 60
tcaagcacta gaagagaagt acggcggcctt cctagataag agtcataaga gcattgtaga 120
agattacaca tactttgcta aggtgtgctt tgataacttc ggcgacaagg tgaagaattg 180
gttgaccttt aatgagcccc agacatttac ttccttttcc tacggaactg gggctctttgc 240
ccca 244

<210> 315
<211> 259
<212> DNA
<213> Zea mays

<400> 315

tcgagcttta cactgctggc cataacattc tcctagccca cgctgaggct gttgatcttt 60
acaacaagca ttaacaagcg gcgacgacac ccgcataggg cttgcgtttg acgtaatggg 120
tcgtgtgccca tacggaacat cgtttctgga taaacaggcc gaagaaaggc catgggacat 180
caacctagga tggttcttag agccagtggc tcgtggtgac tacccttctt ccatgagatc 240

05976054-101501

09976054-101501

attggctagg gaacgacta

259

<210> 316
<211> 239
<212> DNA
<213> Zea mays

<400> 316

gtgtaacctt agctttacta cacgatctgc aagagtaggc agccaaaatg gagtccaaat 60

gttgagcccc tcggaaatcc cacaaaggga ctggttcccc tctgacttca ccttcggtgc 120

cgccacttca gcgtaccaa ttgaagggtgc ttggaatgaa gatggaaagg gggaaagcaa 180

ctgggatcac ttctgccaca atcatccgga aaggatactg gacgggagca attcagaca 239

<210> 317
<211> 253
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(253)
<223> unsure at all n locations

<400> 317

ggttaaacta cnacacctca cggttctcca nnancatcga tntctacca aacnactcac 60

ctgtgctcaa cactgacgac gcctacgcca gtcaagaagt taacgggcct gacgggaagc 120

ccnttggtcc tcctatggga aatccatgga tctacatgta ccctgagggc ttgaaggatc 180

tccttatgat catgaagaac aaatacggaa acccacctat ctacatcacg gngancggaa 240

tcggggntgt tga 253

<210> 318
<211> 241
<212> DNA
<213> Zea mays

<400> 318

caaattgaag gtgcttgga tgaagatgga aagggggaaa gcaactggga tcacttctgc 60

cacaatcatc cggaaggat actggacggg agcaattcag acattggagc gaattcgtac 120

catatgtaca aaacggacgt cagattgctc aaggaaatgg gcatggacgc atataggttc 180

tctatctctt ggcccagaat actgccgaag gaaccaaaga aggaggtatt aaccggatg 240

g 241

<210> 319
 <211> 242
 <212> DNA
 <213> Zea mays

<400> 319

agcagctcaa agctctagtt ctagctagct agcaaagggg gggaaaatgg ctccgcttct 60
 cgctgctgcc atgaaccacg ctgcagccca tcttggcctt aggagccacc tagtaggacc 120
 caacaatgag agttttctcac ggcaccacct gccgtcttct tctccacaga gcagcaagcg 180
 aaggtgtaac cttagcttta ctacacgac tgcaagagta ggcagccaaa atggagtcca 240
 aa 242

<210> 320
 <211> 236
 <212> DNA
 <213> Zea mays

<400> 320

caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgctgct 60
 gccatgaacc acgctgcagc ccattcctggc cttaggagcc acctagtagg acccaacaat 120
 gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaagggtgt 180
 aaccttagct ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaat 236

<210> 321
 <211> 241
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(241)
 <223> unsure at all n locations

<400> 321

cttnaatgac tacaaaaggc tagattacat ccagcgccac atcgctactc ttaaggaatc 60
 aatagacttg ggatcaaatg tgcaaggcta cttecgcttg actctgctgg acaactttga 120
 atggattgcc ggcttcaccg aacgttatgg cattgtctac gtcgaccgca acaataactg 180
 cacgcgtac atgaaggagt ctgccaagtg gttgaaagag ttcaacaccg cgaaaaagcc 240

c

241

<210> 322
 <211> 341
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(341)
 <223> unsure at all n locations

<400> 322

gccgcnggga accaccagaa ggaggtatta acccggatgg catcaagtac tacagaaacc 60
 tcatcaactt gttgctagaa aacggcatag agccatatgt aacaattttc cactgggatg 120
 tacctcaagc actagaagag aagtaaggcg gcttcctaga taagagtcac aagagcattg 180
 tagaaattac acatactttg ctaaggtgtg ctttgataac ttcggcgaca aggtgaagat 240
 tggttgacct ttaatgagcc ccagacttta cttccttttc ctacggaatg gggctctttgc 300
 cccagtcggt gctcactgga tagatgtgcc taccactgg g 341

<210> 323
 <211> 269
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(269)
 <223> unsure at all n locations

<400> 323

caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctcngnt tctncgctgc 60
 tgccatgaac cacgctgcag cccatcctgg ccttaggagc nacctagtag gncccaacaa 120
 tgagagtttc tcacggcacc acctgcngtc ttcttctcca cagagcagca agcnaagggtg 180
 taaccttcgc tttactacac natctgcaag agtaggcagc caaaatggag tcnaaatntt 240
 ganccctcgc gaaatcccac aaagggant 269

<210> 324
 <211> 316
 <212> DNA
 <213> Zea mays

09976054-101501

<220>
 <221> unsure
 <222> (1)...(316)
 <223> unsure at all n locations

<400> 324

gacatttaacn tccttttctt acgggctggg gtctttgccc caggctcggg ctcacctgga 60
 ctagactgtg cctaccaaac tgngaattna ctcgtcgagc cttanactgc tggccataac 120
 atnctcctag cccacgctga ggctgttgat ctttacaaca agcattacaa gcgcgacgac 180
 acnccgntag ggcttgctgt tncgtnatg ggctcgtgtgc catacgggac atcgttttctg 240
 ganaacaggc cgnagaaagt cctgggacat caancnatna tggntctaga ccagtngtcg 300
 ggtgactacc cctctc 316

<210> 325
 <211> 277
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(277)
 <223> unsure at all n locations

<400> 325

caaagctcta gttctagcta nctagcaaan ngggggganaa tggctccgct tttcgtgcn 60
 gccatgaacc acgctgcagc ccctcctggc cttaggagcc ncctagtagg acccaacgat 120
 gagagntntc acggcaccan ctgccgtctt cttctccaca gagcagcaan cgaagggtgta 180
 acnttagctt tactacacga tntgcaagag taggcagcca aaatggagtc cnatgttgta 240
 gccctcggga aatcccgcga agggantggg tcccctc 277

<210> 326
 <211> 247
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(247)
 <223> unsure at all n locations

<400> 326

ancagctcaa agctctagtt ctagctagct agcaaagggg gggaaaatgg ctccgcttct 60

cgctgctgcc atgaaccacg ctgcagccca tcttgccctt aggagccacc tagtaggacc 120
 caacaatgag agttttctcac ggcaccacct gccgtcttct tctccacaga gcagcaagcg 180
 aaggtgtaac ttagctttac tacacgatct gcaagagtag gcagccaaaa tggagtccaa 240
 atgttga 247

<210> 327
 <211> 252
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(252)
 <223> unsure at all n locations

<400> 327

agacattgga gcgaattcgt accatatgta caaaacggat gtcagattgc tgaaggaaat 60
 gggcatggac gcatataggt tctctatctc ttggcctaga atactgccta nnggaacggg 120
 cgaaaggggt attaaccagg atggcatcna ttactacana aggctcatcn acttgntgct 180
 agaggatggc ntagangcat atgnaacnat tttccactgg gatgtccctc aagcactaga 240
 agagaagtac gg 252

<210> 328
 <211> 231
 <212> DNA
 <213> Zea mays

<400> 328

ctgggaattc actcgtcgag ctttactctg ctggccataa cattctccta gcccacgctg 60
 aggctgttga tctttacaac aagcattaca agcgcgacga caccgcata gggcttgctg 120
 ttgacgtaat gggtcgtgtg ccatacggaa catcgtttct ggataaacag gccgaagaaa 180
 ggtcatggga catcaacctt ggatgggtct tagagccagt ggttcgtggt g 231

<210> 329
 <211> 237
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(237)
 <223> unsure at all n locations

<400> 329
 caaagctcta gttctagcta gctagcnaa ggggggaaaa tggctccgct tctcgctgct 60
 gccatgaacc acgctgcagc ccatcctggc cttaggagcc acctagtagg acccaacaat 120
 gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaagggtgt 180
 aaccttagct ttactacacg atctgcanga gtaggcagcc aaaatggagt ccaantg 237

<210> 330
 <211> 264
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(264)
 <223> unsure at all n locations

<400> 330
 acnccttntc natgagatna ttggctaggg aacgactacc cttcttcaag gacgagcaga 60
 aggagaagct tcgccgggttc ctataanatg ttgggggttaa actactacac ctcacgggttc 120
 tccaaaaaca tcgatatctc acnaaactan tcacctgtgc tcaacactga ccaccgccnn 180
 cgccagtcaa gaagttaacg ggcctgangg gaagcccant ggtcctccta tgggaaatcc 240
 atggatctac atgtaccctg aggg 264

<210> 331
 <211> 228
 <212> DNA
 <213> Zea mays

<400> 331
 cacatacttt gctaagggtgt gctttgataa cttcggcgac aagggtgaaga attggttgac 60
 ctttaatgag cccagacat ttacttcctt ttcctacgga actgggggtct ttgccccagg 120
 tcggtgctca cctggactag actgtgccta cccaactggg aattcactcg tcgagcctta 180
 cactgctggc cataacattc tcctagccca cgctgagggt gttgatct 228

<210> 332
 <211> 233
 <212> DNA
 <213> Zea mays

<220>

09976054-101501

<221> unsure
<222> (1)...(233)
<223> unsure at all n locations

<400> 332

aganaggtcc tgggacatca acctaggatg gttcttagag ccagtggtnc gtggtgacta 60
acccttctcc atgagatcat tggctagga acgactacc ttcttcaagg acgagcagaa 120
ggagaagctc gccggttcct ataacatgtt ggggttaaac tactacacct cacggttctc 180
caaaaacatc gatatctcac caaactactc acctgtgctc aacactgacg acg 233

<210> 333
<211> 235
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(235)
<223> unsure at all n locations

<400> 333

ctctacccat ggaggatgcc ttaaagtact acaaaaggct agattacatc cagcgccaca 60
tcgctactct taaggaatca atagacttgg gatcaaagt gcaaggctac ttcgcttgg 120
ctctgctgga caactttgaa tgggtcgccg gcttcaccga acgttatggc attgtctacg 180
tcgaccgcaa caataactgc acgcgctaca tgaaggagtc tncnaagngg ttnaa 235

<210> 334
<211> 268
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(268)
<223> unsure at all n locations

<400> 334

aaaataactg ttgatacggc cgtcagattg ctcaaggaaa tgggcatgga cgcntatagg 60
ttctctatct cttggcccag aatactgccg aaggaaccaa agaaggaggt attaaccgg 120
atggcatcaa gtactacaga aacctcatca acttgttgct agaaaacggc atagagccat 180
atgtaacaat ttccactgg gatgtacctc angcactnga agagaagtac ggcggcttcc 240
tagatangag tcatggagca tgttnaag 268

<210> 335
 <211> 241
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(241)
 <223> unsure at all n locations

 <400> 335

 ttcggtngcc gccacttcag cgtaccaaata tgaagggtgct tggaatgang atngaaaggg 60
 ggaaagcaac tgggatcact tctgccacaa tcatccggaa aggatactgg acgggagcaa 120
 ttcagacatt ggagcgaatt cgtaccatat gtacaaaacg gacgtcagat tgctcaagga 180
 aatgggcatg gacgcatata ggttctctan ctcttggccc agaatactgc cgaaggaacc 240
 a 241

<210> 336
 <211> 240
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(240)
 <223> unsure at all n locations

 <400> 336

 ggacaacttt gaatgggttcg ccggcttcac cgaacgttat ggcnttgtct acgtcgaccg 60
 caacaataac tgcacgcgct acatgaagga gtctgccaag tgggtgaaac agttcaacgc 120
 cgcgaagaag cccagcaaga ngattctttn gccagcttng aaatcggggg cctcatgatg 180
 tgggtgcagc ccataaaaaa ctggtgtgtg gtttcgaann gaaaatttgc tgtttttncg 240

<210> 337
 <211> 226
 <212> DNA
 <213> Zea mays

 <400> 337

 cgctactctt aaggaaatcaa tagacttggg atcaaatgtg caaggctact tcgcttggtc 60
 tctgctggac aactttgaat gggtcgccgg cttcaccgaa cgttatggca ttgtctacgt 120

cgaccgcaac aataactgca cgcgctacat gaaggagtct gccaaagtgg tgaacagtt 180
caacgccgag aagaagccca gcaagaagat tcttacgcca gcttag 226

<210> 338
<211> 227
<212> DNA
<213> Zea mays

<400> 338

cacccgcata gggcttgctg ttgacgtaat gggctgctgt ccatacggaa catcgtttct 60
ggataaacag gccgaagaaa ggtcctggga catcaacctt ggatgggtct tagagccagt 120
ggttcgtggg gactaccctt tctccatgag atcattggct agggaaacgac tacccttctt 180
caaggacgag cagaaggaga agctcgccgg ttcctataac atgttgg 227

<210> 339
<211> 229
<212> DNA
<213> Zea mays

<400> 339

gtaccatatg tacaaaacgg acgtcagatt gctcaaggaa atgggcatgg acgcatatag 60
gttctctatc tcttggccca gaatactgcc gaaggaacca aagaaggagg tattaacccg 120
gatggcatca agtactacag aaacctcatc aacttgttgc tagaaaacgg catagagcca 180
tatgtaacaa ttttccactg ggatgtacct caagcactag aagagaagt 229

<210> 340
<211> 266
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(266)
<223> unsure at all n locations

<400> 340

ggaaaatggc tccgcttctc gctgctgcca tgaaccacnc tgcagcccat cctggcctta 60
ggagccacct agtaggaccc aacaatgaga gtttctcacg gcaccacctg ccgtcttctt 120
ctccacagag cagacaagcg aaggtgtaac ttagctttac tacacgatct gcaagagtag 180
gcagccaaaa tggagtccaa atgttgagcc cctcggaat cccacaaagg gatgggttcta 240

tctgacttca ccttcggtgc cgccac 266

<210> 341
<211> 223
<212> DNA
<213> Zea mays

<400> 341

ccagacattt acttcctttt cctacggaac tggggtcttt gccccaggtc ggtgctcacc 60
tggactagac tgtgcctacc caactgggaa ttactcgtc gagccttaca ctgctggcca 120
taacattctc ctagcccacg ctgaggtgtg tgatctttac aacaagcatt acaagcgga 180
cgacacccgc atagggcttg cgtttgacgt aatgggtcgt gtg 223

<210> 342
<211> 262
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(262)
<223> unsure at all n locations

<400> 342

gcccagcaag aagattctta cgccagctta gaaatcngcg gcctcatgat gtgggtgcag 60
cccataaaaa actggtgtgt ggtttcgaac cgaaaatttt ctgttttttt ccgccacgag 120
aggttctgga ggcatanctt ccagcacctg ggctaataac gcattgttcc aattcngtct 180
ggccttgatc tgcattgaat aaataaagtg atgggtttcc ctgtttcaaa nannannna 240
aagnnganga ggaggnccgn gg 262

<210> 343
<211> 224
<212> DNA
<213> Zea mays

<400> 343

acttcggcga caaggtgaag aattggttga cctttaatga gccccagaca ttacttcct 60
tttcctacgg aactggggtc tttgccccag gtcggtgctc acctggacta gactgtgcct 120
acccaactgg gaattcactc gtcgagcctt aactgctgg ccataacatt ctctagccc 180
acgctgaggc tggtgatctt tacaacaagc attacaagcg cgac 224

<210> 344
 <211> 324
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(324)
 <223> unsure at all n locations

 <400> 344

 gtcctcctgt atgtatatct ttgatttttt ttattgtaat atgcatattg gtaactagtg 60
 aataatattt actacactaa tttgcagatg ggaaatccat ggatctacat gtaccctgag 120
 ggcttgaagg atctccttat gatcatgaag aacaaatcag gaaacccacc tatctacatc 180
 acggagaacg gaatcgggga tgttgatacc aaggagacac ctctacccat ggaggatgcc 240
 ttaaagtact acaaaaggct agattacatc cagcgccaca tcgctactct taaggnatcc 300
 atagacttgg gtcaaatgtg caag 324

<210> 345
 <211> 308
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(308)
 <223> unsure at all n locations

 <400> 345

 ggtcgtgtcc catacgaaaa gtcggcgttt acggatcaac aggccgaaca aaggctcctgg 60
 gacattaacc taggatgggt cttgganccg gttgttcgtg gtgactatcc cttctccatg 120
 agatcattgg caagggaacg actacccttc ttcactgaca aagagcaaga gaagctagtg 180
 ggttcctatg acatgttggg gttaaactat tatacctcaa ggttctctaa aaacatcgat 240
 atctcaccaa actactcgcc agtgcctaac actgacgacg catatgccag tcaagaaacg 300
 aatgggct 308

<210> 346
 <211> 290
 <212> DNA
 <213> Zea mays

 <400> 346

00076054.101501

atcccttctc catgagatca ttggcaaggg aacgactacc cttcttcaact gacaaagagc 60
aagagaagct agtgggttcc tatgacatgt tgggggttaa ctattataacc tcaaggttct 120
ctaaaaacat cgatatctca ccaaactact cgccagtgtc caacactgac gacgcatatg 180
ccagtcaaga aacgaatggg cctgacggga atcccattgg tccttggatg gggaattcgt 240
ggatctacct atatcctgaa ggcctaaagg atctgcttat gatcatgaag 290

<210> 347
<211> 341
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(341)
<223> unsure at all n locations

<400> 347
cgaagggtga accttagctt tactacacga tctgcaagag taggcagcca aaatggagtc 60
caaatgttga gcccctcgga atcccacaaa gggactgggt cccctctgac ttcaccttcg 120
gtgccgccat tcagcgtacc aaattgaagg tgcttgggaat gaagatggaa aggggggaaag 180
caactgggat cattctgcca caatcatccg gaaaggatat ggacnggnnn nantcagaca 240
ttggagcgaa ttcgtaccat atgtacanaa eggacgtnag attgctcagg aaatgggcat 300
ggacgcatat angttctctn tntctgggcc cagatnctgc c 341

<210> 348
<211> 286
<212> DNA
<213> Zea mays

<400> 348
gacgcatagg gcttgcattt gacgtaatgg gtcgtgtccc atacgaaaag tcggcgttta 60
cggatcaaca ggccgaacaa aggtcctggg acattaacct aggatgggtc ttggagccgg 120
ttgttcgtgg tgactatccc ttctccatga gatcattggc aagggaacga ctacccttct 180
tactgacaa agagcaagag aagctagtgg gttcctatga catgttgggg ttaaaactatt 240
atacctcaag gttctctaaa aacatcgata tctcaccaaa ctactc 286

<210> 349
<211> 220

09976054-101501

<212> DNA
<213> Zea mays

<400> 349

gctagattac atccagcgcc acatcgctac tcttaaggaa tcaatagact tgggatcaaa 60
tgtgcaaggc tacttcgctt ggtctctgct ggacaacttt gaatggtttg ccggcttcac 120
cgaacgttat ggcatgtct acgtcgaccg caacaataac tgcacgcgct acatgaagga 180
gtctgccaag tggttgaaag agttcaacac cgcgaaaaag 220

<210> 350
<211> 480
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(480)
<223> unsure at all n locations
<400> 350

aaaaaacggn atanagccat atgtaacaat ctttactgg gatgtncctc aagcacngag 60
aagngaagta cngcggcttc ctagntaaga gtcatangag cattgtanaa gattacacat 120
actntgctaa ggtgtgcttt gataacttnn gcgacaaggt gaagaaattg gttgaccttt 180
aatgagcccc anacatttac ttctttttcc tacngaactg gggtcctttg cnccaagttn 240
ggtgctnacc tggactagac tgtgncttnc caantgggaa ttcnctnatt gangctttac 300
aaatggttgg cccattaaca tttttctaaa ccactcttaa gctngttgat ctttaccanc 360
aancnnttnn ntcncnanca caccngnatt nggctttgct ttnactnaa angggctctg 420
ntcentacng taacaatcnn ttnnttgana aanangtccn nataaaaangg cnntnggaca 480

<210> 351
<211> 260
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(260)
<223> unsure at all n locations

<400> 351

cggatgtcag attgctgaag gaaatgggca tggacgcata taggttctct atctcttggc 60

ctagaatact gcctaagggg acggtcgaag gaggtattaa ccgcatggca tcgattacta 120
 caaaaggctc atcaacttgt tgctagagaa tggcatagag ccatatgtaa caattttccc 180
 actgggatgt ccctcaagca ctagaagaga gttacggcgg tttntnggat aagtccnta 240
 ggggggttnnn aantgnttnc 260

<210> 352
 <211> 228
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(228)
 <223> unsure at all n locations
 <400> 352

gggaaaatgg ctccgcttct cgctgctgcc atgaaccacg ctgcagcccg tcctggcctt 60
 aggagccacc tagtaggacc caacaatgag agtttctcan ggcaccacct gccgtcttct 120
 tctccacaga gcagcaagcg aagggtgaac cttagcttta ctacacgac ngcnagagta 180
 ggcagccaag atggagtcen natggtgagc ccctcggaaa tcccacaa 228

<210> 353
 <211> 222
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(222)
 <223> unsure at all n locations
 <400> 353

ggaatcaata gacttgggat caaatgtgca aggctacttc gcttgggtctc tgctggacaa 60
 ctttgaatgg tttgccggtc tcaccgaacg ttatggcatt gtctacgtcg accgcaacaa 120
 taactgcacg cgctacatga aggagtctgc caagtgggtg aaaganttca acaccgcgaa 180
 aaagcccagc aagaagattc ttacgccagc ttaaaaaann gg 222

<210> 354
 <211> 223
 <212> DNA
 <213> Zea mays
 <400> 354

00976054-101501

gaatcaatag acttggggat caaatgtgca aggtacttc gcttgggtctc tgctggacaa 60
 ctttgaatgg ttccgccggt tcaccgaacg ttatggcatt gtctacgtcg accgcaacaa 120
 taactgcacg cgctacatga aggagtctgc caagtgggtg aaacagttca acgccgcgaa 180
 gaagcccagc aagaagattc ttacgccagc ttagaaatcg ggg 223

<210> 355
 <211> 217
 <212> DNA
 <213> Zea mays

<400> 355

gcagctcaaa gctctagttc tagctagcta gcaaaggggg ggaaaatggc tccgcttctc 60
 gctgctgcc a tgaaccacgc tgcagcccat cctggcctta ggagccacct agtaggaccc 120
 aacaatgaga gtttctcacg gcaccacctg cegtcttctt ctccacagag cagcaagcga 180
 aggtgtaacc ttagctttac tacacgatct gcaagag 217

<210> 356
 <211> 214
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(214)
 <223> unsure at all n locations

<400> 356

acctgagggc ttgaaggatc tccttatgat catgaagaac aaatacggaa acccacctat 60
 ctacatcacg gagaacggaa tcggggatgt tgataccaag gagacacctc taccatgga 120
 ggatgcctta aatgactaca aaaggctaga ttacatccag cgccacatcg ctactcttaa 180
 ggnatcaata gacttgggat caaatgtgca aggc 214

<210> 357
 <211> 223
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(223)
 <223> unsure at all n locations

<400> 357
 caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgctgct 60
 gccatgaacc acgctgcagc ccatacctggc cttaggagcc acctagtagg acccaacaat 120
 gagagtttct cacggcacca cctgccgtct tcttctncac agaggaacaa gcgaaagtgt 180
 accttagctt tactacacga tctgcaagag taggcagcca aaa 223

<210> 358
 <211> 251
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(251)
 <223> unsure at all n locations

<400> 358
 cttaaagtac tacaaaaggc tagattacat ccagcgccac atcgctactc ttaaggaatc 60
 aatagacttg ggatcaaatg tgcaaggcta cttcgcttgg actctgctgg acaactttga 120
 atggattgcc ggcttcaccg aacgttatgg cattgtctac gtcgaccgca acaataactg 180
 cacgcgctca tgaaggagtc tgccaagtgg ttgnaagagt caacaccggn gaaaaagccc 240
 acaagaagat t 251

<210> 359
 <211> 268
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(268)
 <223> unsure at all n locations

<400> 359
 cttacgccag cttagaaatc gggggcctca tgatgtgggt gcagcccata aaaaactggn 60
 gtgtgggttc gaaccgaaaa ttttctgttt ttttccgcca cgagangttc tggaggcata 120
 ctctccagca ccgtgggctaa taacgcattg ttccaattca gtctggcctt gtcattgatg 180
 caataaataa agtgatgggt ttccctgtta nanaaacnnn ngnnagtcaa gnccttgacg 240
 aaantggcat cgatancanc tcgngngc 268

<210> 360
 <211> 286
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(286)
 <223> unsure at all n locations

 <400> 360

 gaaaggtcat gggacatcaa cctaggatgg ttcttagagc cagtgggttcg tggtgactac 60
 cccttctcca tgagatgcat tggctaggga acgactaccc ttcttcaagg acgagcagaa 120
 ggagaagctc gccggttcct ataacatggt ggggttaaac tactacacct gcacggttct 180
 ccaaaaacat cgacatctgc accaaactan tgcacctgtg ctcaacatga cgacgcctac 240
 gccatcaaga agttaacggg ctgacgggaa gccattgggt ctctat 286

09976054.101501

<210> 361
 <211> 337
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(337)
 <223> unsure at all n locations

 <400> 361

 gggaacgact acgcttnttc aaggacgagc aganggagaa gctcgcnngt tcctataana 60
 tgttgggggt aaactactac acctnacggg tntccanaaa catcgactcn cnaccaaact 120
 actcacacnt gctcaacact gacgacgcta cgcnagtnaa gaagttaacg ggcttgacgg 180
 gagecnttgg tctctctatg ggntctccat ggatctacat gtaccctgag ggcttggtng 240
 gatctcttat gatcatgaag aacaaatagc gaaaccacn tatctanatn aggagangga 300
 atcgggggatg ttgataccan gagacactct acccatg 337

<210> 362
 <211> 312
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(312)
 <223> unsure at all n locations

<400> 362

cnaaagctct agttctagct agctagcaaa ggggggggaaa atggctcngc ttctcgctgc 60

tgccatgaac cangtgcag cccatcctgg ccttaggagc nacctagtag gaccaacaa 120

atggagngtt tctcacggca ccacctgccg tcttcttctc canagagcag caagcgaagg 180

tgtaacctta gctttactac acggctctgca aggnntaggc agccaaaatg gnggtcccaa 240

atnttncagc cctcntnga atcctgnaa ggnnctggcc cccctncnnt ttaaaaatncg 300

gngcagcnaa tt 312

<210> 363

<211> 217

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(217)

<223> unsure at all n locations

<400> 363

gaagattctt acgccagctt agaaatcggg ggccatcatga tgtgggtgca gcccataaaa 60

aactgggtgtg tggtttcgaa ccgaaaattt tctgtttttt tccgccacga gaggttctgg 120

aggcatactc tccagcaccg ttggnaataa cgcattgttc caattcagtc tggcttgta 180

tgcatgcant aaataaagtg atgggtttcc ctgnttc 217

<210> 364

<211> 199

<212> DNA

<213> Zea mays

<400> 364

gttgggaata aactactaca cctcaatatt ctccaaacat atcgacatct caccaaaaata 60

ctcgctgtgt ctcaaacactg acgacgccta cgctagtcaa gaaacgtatg ggcttgacgg 120

gaaaccatt ggtcctccta tgggaaatcc gtggatctac ttatacccag aaggcctaaa 180

ggatatcctt atgatcatg 199

<210> 365

<211> 200

<212> DNA

<213> Zea mays

<400> 365
ggaacgacta cccttcttca aggacgagca gaaggagaag ctgcgcggtt cctataacat 60
gttggggtta aactactaca cctcacggtt ctccaaaaac atcgatatct caccaaacta 120
ctcacctgtg ctcaacactg acgacgccta cgccagtcaa gaagttaacg ggccctgacgg 180
gaagcccatt ggtcctccta 200

<210> 366
<211> 265
<212> DNA
<213> Zea mays

<400> 366
ggtgactatc ccttctccat gagatcattg gcaagggaac gactaccctt cttcactgac 60
aaagagcaag agaagctagt gggttcctat gacatgttgg ggttaaacta ttatacctca 120
aggttctcta aaaacatcga tatctcacca aactactcgc cagtgtctcaa cactgacgac 180
gcatatgcca gtcaagaaac gaatgggcct gacgggaatc ccattggtcc ttggatgggg 240
aattcgtgga tctacctata tcctg 265

<210> 367
<211> 211
<212> DNA
<213> Zea mays

<400> 367
caagcagctc aaagctctag ttctagctag ctagcaaagg gggggaaaaat ggcaccgctt 60
ctcgtgctg ccatgaacca cgctgcagcc catcctggcc ttaggagcca cctagtagga 120
cccaacaatg agagtttctc acggcaccac ctgccgtctt cttctccaca gagcagcaag 180
cgaaggtgta accttagctt tactacacga t 211

<210> 368
<211> 239
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(239)
<223> unsure at all n locations

<400> 368

cttatatgnc tacnaaaggg ttgatnacat cnagngccnc atcnctantg ttantnaatc 60
tatngacttg ggatcaantg gncgatgctn cttegnttgg antctgctgg acaactttga 120
angnattgcc ggcttcaccg aacgttatgg cattgtctac gtcgaccgca acaataactg 180
cacgcgctac atgaaggagt ctgccaaagt gttgaaagag ttcaacaccg cgaaaaagc 239

<210> 369
<211> 195
<212> DNA
<213> Zea mays

<400> 369

cgacgacacc cgcataagggc ttgcgtttga cgtaatgggt cgtgtgccat acggaacatc 60
gtttctggat aaacaggccg aagaaaggct ctgggacatc aacctaggat ggttcttaga 120
gccagtgggt cgtggtgact accccttctc catgagatca ttggctaggg aacgactacc 180
cttcttcaag gacga 195

<210> 370
<211> 193
<212> DNA
<213> Zea mays

<400> 370

caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgctgct 60
gccatgaacc acgctgcagc ccatectggc cttaggagcc acctagtagg acccaacaat 120
gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaagggtg 180
aaccttagct tta 193

<210> 371
<211> 198
<212> DNA
<213> Zea mays

<400> 371

caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctgcgctgc 60
tgccatgaac cacgctgcag ccatectgg cttaggagc cacctagtag gaccaacaa 120
tgagagtttc tcacggcacc acctgccgtc ttcttctcca cagagcagca agcgaagggtg 180
taaccttagc ttactac 198

<210> 372
<211> 328
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(328)
<223> unsure at all n locations

<400> 372

attggaaact cgctcactga gccatacact gttggccata accttctccg agcccacgct 60
gaggctgttg atctttacaa caagtattac aagggtgaga atggacgcat agggcttgca 120
tttgacgtaa tgggtcgtgt cccatacgaa aagtcggcgt ttacggatca acaggccgaa 180
caaaggtcct gggacattaa cctaggatgg ttcttggagc cggttgttcg tggtgactat 240
ccctctccat gagatcatgg caaggaacga ctacccttct tcatgacaaa gagcaagaga 300
agctatgggt tctatgacng ttgggtta 328

<210> 373
<211> 239
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(239)
<223> unsure at all n locations

<400> 373

gaaaggtcct gggacatcaa ccanggatgg ttcttangag ccagtgggtan cgtggtgact 60
aacccttctc catgagatca ttggctaggg aacgactacc cttcttcaag gacgagcaga 120
aggagaagct cgccggttcc tataacatgt tgggggtaaa ctactacacc tcacggttct 180
ccaaaaacat cgatatctca ccaaactact cacctgtgtc acatgangac gcctagcca 239

<210> 374
<211> 212
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(212)
<223> unsure at all n locations

<400> 374
 agcagctcaa agctctagtt ctagctagct agcaaagggg gggaaaatgg ctccgcttct 60
 cgctgctgcc atgaaccacg ctgcagccca tcttggcctt aggagccacc tagtangacc 120
 caacaatgag agttttctcac ggcaccacct gcngtcttct tctncacaga gcggcaagcg 180
 aaggngtaac ctgagcttta ctanangttt gc 212

<210> 375
 <211> 221
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(221)
 <223> unsure at all n locations

<400> 375
 caagantagg cagccaaaat ggagtccaaa tgttgagccc ctcgaaatc ccacaaaggg 60
 actggttccc ctctgacttc accttcggtg ccgccacttc agcgtaccaa attgaagggtg 120
 cttggaatga agatggaaaag ggggaaagca actgggatca cttctgcnac aatcatccgg 180
 aaaggatctg gnngggagca ttccagacat gggncgattt c 221

<210> 376
 <211> 212
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(212)
 <223> unsure at all n locations

<400> 376
 ctagctagct agcagggggg gaaatggctc cacttctcgc cgcagccatg aaccacgctg 60
 ctcatccagt ccttagaagc catctaggan ccaacaatga gagtttctca cgacaccacc 120
 tatnttcttc accgcaaagc agtaagcgaa ggtttaacct tagctttacg ccagatctgc 180
 aaagnaggca atcaaaatgg agtccattgt tg 212

<210> 377
 <211> 180
 <212> DNA
 <213> Zea mays

<400> 377
 caaagctcta gttctagcta gctagcaaag ggggggaaaaa tggctccgct tctcgctgct 60
 gccatgaacc acgctgcagc ccatcctggc cttaggagcc acctagtagg acccaacaat 120
 gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaaggtgt 180

<210> 378
 <211> 266
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(266)
 <223> unsure at all n locations

<400> 378
 aatcaataga cttgggatca aatgtgcaag gtacttcgct tgggctctgc tggacaactt 60
 tgaatgggtc gccgcttcac cgaacgttat ggcattgcta cgcgaccgca acantaactg 120
 cacgcgctca tgaaggagct gcaagtgggt gaaacagttc aacgccgca agaaccacaca 180
 agaagattct tacgccagct tagaaatcgg gggcctcatg atgtgggtgc agnccataaa 240
 aactggnggt ggttcgaacc gaaatt 266

<210> 379
 <211> 274
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(274)
 <223> unsure at all n locations

<400> 379
 catcgtttct ggataaacag gccgaagaaa ggtcctggga catcaacctt ggatgggttct 60
 tagagccagt ggttcgtggt gactaccctt tctccangag ntnagtggct agggganggg 120
 gganncnctg cncttggttg ttatgnnggg gnaagnncngn gggggncctn aaaaaattng 180
 gggtnaactt gacaccctca cggntctcca aaaacatcga tatctcacca aactactcac 240
 ctgtgctcaa cactgacgac gcctacgcca gtca 274

<210> 380

<211> 209
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(209)
<223> unsure at all n locations

<400> 380

cgtccaattc nattttttatt tgtgcaggaa tcggggatgt tganaccaag gagacacctc 60
taccatgga ggatgcctta nntgactaca anaggctaga ttacatccag cgccacatcg 120
ctactcttaa ggaatcaata gacttgggat caaatgtggc aatgctactt cgcttgggtct 180
ctgctggaca actttgaatg gttcgccgg 209

<210> 381
<211> 183
<212> DNA
<213> Zea mays

<400> 381

ggtgcttgga atgaagatgg aaagggggaa agcaactggg atcacttctg ccacaatcat 60
ccggaaagga tactggacgg gagcaattca gacattggag cgaattcgta ccatatgtac 120
aaaacggacg tcagattgct caaggaaatg ggcatggacg catatagtgc tctatctctt 180
ggc 183

<210> 382
<211> 238
<212> DNA
<213> Zea mays

<400> 382

gggtgagaat ggacgcatag ggcttgcatt tgacgtaatg ggtcgtgtcc catacgaaaa 60
gtcggcgttt acggatcaac aggccgaaca aaggtcctgg gacattaacc taggatgggtt 120
cttgagccg gttgttcgtg gtgactatcc cttctccatg agatcattgg caaggggaacg 180
actacccttc ttactgaca aagagcaaga gaagctagtg ggttcctatg acatgttg 238

<210> 383
<211> 167
<212> DNA
<213> Zea mays

<220>
 <221> unsure
 <222> (1)...(167)
 <223> unsure at all n locations

<400> 383

caattttcca ctgggatgta cctcaagcac tagaagagaa gtacggcggc ttcctagata 60
 agagtcataa gagcattgta gaagattaca catactttgc taagggtgtgc ttgataact 120
 tcggcgacaa ggtgaagaat tggttgacct ttaatgagcc cnagact 167

<210> 384
 <211> 210
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(210)
 <223> unsure at all n locations

<400> 384

canaactact cacctgtgct caacactgac gacgcctacg ccagtcaaga aantaacggg 60
 cctgacggga agccattggt tcctcctatg ggaaatccat ggatctacat gtaccctgag 120
 ggcttgaagg atctccttat gatcatgaag aacanatang ganncccant tatntggtna 180
 cggaaancgg nngttggata gngnnccccc 210

<210> 385
 <211> 360
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(360)
 <223> unsure at all n locations

<400> 385

cagaaacctc atcaacntgn tgctaganaa cgggcataga gccatatgta acaattttcc 60
 actgggatgt acctcncagc actagaagag aagtacggcg gcttccttag ataagagtca 120
 tangagnagt gtagangatt anacatactt gtgctnaggt gtgttggnat aactcncgnc 180
 gnacataggt gaaagaattg agtaganctg antgagcncc cagacantta anttcgnntn 240
 tccnaacngg aactgtnggn cttgtgcncc caggtegggt ctcanctggg actagactgt 300

gcctacccca actgggnntt cactcgctga gcctnnact gctggcnata acattctct 360

<210> 386
<211> 150
<212> DNA
<213> Zea mays

<400> 386

gccccaggtc ggtgctcacc tggactagac tgtgcctacc caactgggaa ttcactcgtc 60

gagccttaca ctgctggcca taacattctc ctagccacag ctgaggctgt tgatctttac 120

aacaagcatt acaagcgcga cgacacccgc 150

<210> 387
<211> 164
<212> DNA
<213> Zea mays

<400> 387

ggttctccaa aaacatcgat atctcaccaa actactcacc tgtgctcaac actgacgacg 60

ctacgccagt caagaagtta acgggcctga cggaagccc attggtctc ctatgggaaa 120

tccatggatc tacatgtacc ctgaagggtt gaaagatctc ctat 164

<210> 388
<211> 148
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(148)
<223> unsure at all n locations

<400> 388

ctctagttct agctagctag caaagggggn gaaaatggct ccgcttctcg ctgctgcnat 60

gaaccacgct gcagcccatc ctggccttag gagccaccta gtaggaccca acaatgagag 120

tttctcacgg caccacctgc cgtcttct 148

<210> 389
<211> 219
<212> DNA
<213> Zea mays

<400> 389

aaatgtgcta acccaattgg aaactcgctc actgagccat acactgttgg ccataacctt 60
 ctccgagccc acgctgaggg tggtgatctt tacaacaagt attacaaggg tgagaatgga 120
 cgcatagggc ttgcatttga cgtaatgggt cgtgtcccat acgaaaagtc ggcgtttacg 180
 gatcaacagg ccgaacaaag gtcctgggac attaaccta 219

<210> 390
 <211> 160
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(160)
 <223> unsure at all n locations
 <400> 390

gattacacat actttgctaa ggtgtgcttt gataacttcg gcgacaaggt gaagaattgg 60
 ttgaccttta atgagcccca gacattactt ccttttcccta cggaactggg gtcttttnecc 120
 cangtcggng ctcantggac tagactgtgc ctacccannt 160

<210> 391
 <211> 139
 <212> DNA
 <213> Zea mays
 <400> 391

caacactgac gacgcctacg ccagtcaaga agttaacggg cctgacggga agcccattgg 60
 toctcctatg ggaaatccat ggatctacat gtaccctgag ggcttgaagg atctccttat 120
 gatcatgaag aacaaatag 139

<210> 392
 <211> 150
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(150)
 <223> unsure at all n locations
 <400> 392

gtcctagcc cacgctgagg ctgttgatct ttacaacaag cattacaagc gcgacgacac 60
 nncgcatagg gcttgcggtt gacgtaatgg gtcgtgtgcc atacggaaca tcgtttctgg 120

ataaacaggc cgaagaaagg tcctgggatt 150

<210> 393
<211> 175
<212> DNA
<213> Zea mays

<400> 393

tggacagtga gggcttgcat ttgacgtaat gggtcgtgtc ccatacgaaa agtcggcggtt 60

tacggatcaa caggccgaac aaaggtcctg ggacattaac ctaggatggg tcttggagcc 120

ggttgttcgt ggtgactatc cttctccat gagatcattg gcaagggaac gacta 175

<210> 394
<211> 133
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(133)
<223> unsure at all n locations

<400> 394

cggatgtcag attgctgaag gaaatgggca tggacgcata taggttctct atctcttggc 60

cnanaatact gcctaaggna acggtcgaag gaggtattaa ccaggatggc atcgattact 120

acaaaaggct cat 133

<210> 395
<211> 129
<212> DNA
<213> Zea mays

<400> 395

cagaaacctc atcaacttgt tgctagaaaa cggcatagag ccatatgtaa caattttcca 60

ctgggatgta cctcaagcac tagaagagaa gtacggcggc ttcctagata agagtcataa 120

gagcattgt 129

<210> 396
<211> 127
<212> DNA
<213> Zea mays

<220>

0965654 101011

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gggataaaca ggccgaagaa aggtcctggg acatcaacct aggatgggttc ntagagccag      60
tggttcgtgg tgactacccc ttctccatga gatcattggc tagggaacga ctacccttct      120
tcaagga                                           127

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<400> 397

<210>	398
<211>	238
<212>	DNA
<213>	Zea mays

<400> 398

cngnnncgntg	ggtcgaccca	ccgcgtccgc	nccaacgcgt	ccgcggacgc	gtgggcaaaag	60
cagctcaaag	ctctagtact	agctagctag	caaagggggg	gaanntggct	ccgcttactc	120
gctgctgcca	tgaaccacgc	tgcagcccat	cctggcctta	ggagccacct	agtaggaccc	180
aacaatgaga	gtttctcacg	gcaccacctg	ccgtcttctt	ctccacagag	cagcaagg	238

<400> 399

156

agaacacctc atcaacttgt tgctagaaaa cgccatagag ccatatgtaa caattttcca 120
ctgggatgta c 131

<210> 400
<211> 132
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(132)
<223> unsure at all n locations

<400> 400

agcagctcaa agctctagtt cnagcnagcn agcaaagggg gggaaaatgg ctccgcttct 60
cgcnngngcc atgnacncac gctgcagccc anccnggcct taggagccac cnagtaggnc 120
ccaacaatga ga 132

<210> 401
<211> 116
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(116)
<223> unsure at all n locations

<400> 401

ancagctcaa agctctagtt ctagctagct agcaaanggg gggaaaatgg ctccgcttct 60
cgctgctgcc atgaaccacg ctgcagccca tcttggcctt aggagccact agtagg 116

<210> 402
<211> 123
<212> DNA
<213> Zea mays

<400> 402

cgctgagccc ctccgaagtc cctaaaagag actgggtccc ctctgacttc atctttggtg 60
ccgccacttc agcgtaccaa attgaagggtg gatggaacga ggatggaaag aagccaagca 120
cat 123

<210> 403
<211> 132

<212> DNA
<213> Zea mays

<400> 403

ggacgcatag ggcttgcat tgcgtaatg ggtcgtgtcc catacgaaaa gtcggcgttt 60
acggatcaac aggccgaaca aaggtcctgg gacattaacc taggatgggtt cttggagccg 120
gttggttcgtg gt 132

<210> 404
<211> 105
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(105)
<223> unsure at all n locations

<400> 404

gaggctgttg atctttacaa caagcattac aagcgcgacg acacccgcat agggcttgcg 60
nttgacgnaa tgggtcnggt gccatacggg anntccgttc nnggg 105

<210> 405
<211> 92
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(92)
<223> unsure at all n locations

<400> 405

ggagacatcg tttctggata aacaggccga agaaaggtcc tgggacatca acctaggatg 60
gttcttagag ccagtngttc gtggtgacta cc 92

<210> 406
<211> 443
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(443)
<223> unsure at all n locations

<400> 406

gacaggggtga agaactgttt tancttcaac gagccgaggt gcgtcggngg tcngggctac 60
gacaatgggt tgcacgcacc gggaaggtgt tccgggtgcc ccgccggagg caactccacc 120
acggagccgt accttgctgc acaccatctc atcctttctc atgcagctgc ngtcaggcga 180
taccgcgaca agtatcagct tcaccagaag gggaagattg gaattctcct ggatttcgtg 240
tggtacgaac ctttcagcga cagcaatgcn gaccaggctg cagcacagcg agccagggac 300
ttccacctaa gctgggttct tgaccccatt gtcattggacc gtcccgtact ngatgcaaga 360
aaatgnccaa nacaagnttn ccgntgggta accattgaaa aaaccncgat ggtgnaaagg 420
tttatngacn atttttggnt tca 443

<210> 407
<211> 291
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(291)
<223> unsure at all n locations

<400> 407

aactgggttta cttttcaacg agccgaggtg cgtcgtctgct ctgggctacg acaatggctt 60
gcacgcaccg ggaaggtgtt ccgggtgccc ccgccggagg actccaccac ggagccgtac 120
cttgctgcac accatctcat cttttctcat gcagctgcgg tcaggcgata ccgcgacaag 180
tatcagcttc accagaaggg gaagattgga atctcctgga tttcgtgtgg tacgaacctt 240
tcagcgacan aatgcggacc aggtctgcagc acagcgagcc aggattccac t 291

<210> 408
<211> 256
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(256)
<223> unsure at all n locations

<400> 408

tgctcgtctg ctctgggcta cgacaatggc ttgcacgcac cgggaaggtg ttccgggtgc 60
cccgccggag gaactccacc acggagccgt accttgctgc acaccatctc atcctttctc 120

atgcagctgc tgtnaggnga taccgcnaca agtatnanct tcaccagaag gggaagattg 180
 gaantattat agattttntg tngtangaac ctttatctac ancaatgcng acnangctgc 240
 agcacagcna gccang 256

<210> 409
 <211> 306
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(306)
 <223> unsure at all n locations
 <400> 409

acaccatctc atcctntctc atgcagctgc ngtcaggcga tnccgcgaca agtatcagct 60
 tcaccagaag gggaagattg gaattctcct ggatttcgtg tggtagaac ctttcagcga 120
 cagcaatgcg gaccaggctg cagcacagcg anccagggnc tttcacctag gctgggttcct 180
 tgancatt gtacatggac ggtaccgta ctgatgnaa gagatgccna agacaggnta 240
 ccgttggtca gcgatgnaga agccaggatg gtgaaangct ctatngatta tggtggcatc 300
 aaccac 306

<210> 410
 <211> 285
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(285)
 <223> unsure at all n locations
 <400> 410

cgcacaccat ctcatccttt ctcatgcagc tgcggtcagg cgataccgcg acaagtatca 60
 gcttcaccag aaggggaaga ttggnattct cctggatttt gtgtggtacg aacctttcag 120
 cgacagcaat gcggaccagg ctgcagcaca gcgagccagg gacttccacc taggctgggtt 180
 ccttgacccc attgtacatg gacggtaccc gtactcgatg caagagattg ccaaagacag 240
 gctaccgttg ttcagcgatn aagaagccag gatggtgaaa ggctc 285

<210> 411
 <211> 202

<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(202)
<223> unsure at all n locations

<400> 411

ttggaattct cctggatttc gtgtggtacg aacctttcag cgacagcaat gcggaccagg 60
ctggcagcac agcgagccag ggacttccac ctaggctggg tccttgacce cattgtacat 120
ggacgggtacc cgtactcgat gcaagagatt gccaaagana ggctaccggt gttcagcgtg 180
aagancceng gatggtgaaa gt 202

<210> 412
<211> 427
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(427)
<223> unsure at all n locations

<400> 412

gtctgccatg ggtcaaangg ctcangcggg anttacgtcg ggcattcaaa ccactacacc 60
cacgtactta cgcccagcaa ctttcgtcaa acgcccacag aagaccaaac ttaccgcaan 120
cgattgggaa tgcaaagatt tcgtatgagc gagatgggtg gccattggc aaaagggcgt 180
actcggactg gctttacgtc gttccatggg ggctctacaa ggctctgatt tggaccaagg 240
agaagttcaa cagccctgtg atgctcatcg gagagaacgg aattgaccag cctggaaatg 300
agaccttgcc gttcgtctcg tacgacaagt tcaggataga ctacttcgag aagtacctgt 360
acgagctcca gtgcgccata cgcgacgggtg caaacgtctt cggctacttc gcgtgggtcg 420
tgctgga 427

<210> 413
<211> 292
<212> DNA
<213> Zea mays

<400> 413

agaccaacta ccgcaacgat tggaatgcaa agatttcgta tgagcgagat ggtgtgcccc 60

ttggcaaaaag ggcgtactcg gactggcttt acgtcgttcc atgggggctc tacaaggctc 120
 tgatttggac caaggagaag ttcaacagcc ctgtgatgct catcggagag aacggaattg 180
 accagcctgg aaatgagacc ttgccgttcg ctctgtacga caattcagga tagactattc 240
 gagaagtacc tgtacgagct ccagtggcgc catacgcgac ggtgcaaacg tc 292

<210> 414
 <211> 467
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(467)
 <223> unsure at all n locations
 <400> 414

ggcctgcagc gccagcgcag cgctctctctg ctactgtgct ggctgacgcc ggtggggngt 60
 gagcgaactg cgagctgctg ccacccctgc tgccgcggtc gaccgccggc cccggaccga 120
 gatggacgct cgggtgggcgg tgctgctcgc gctgctggtc gccagcggcg gcgtccgtgt 180
 ctgcgccgcc gctggggcca agggcgccaa ctggctgggc gggctgagcc gcgcgtcgtt 240
 cccaagggg ttcgtgttcg ggacggcgac gtnggcgtac caggtcgagg gcgccngntn 300
 caccaacggn cggggcccct tcatctggga ttcatctcgc caggttccaa gaaatattgc 360
 anggaatcaa aatggaaacg tttcaatgga tcaataccat cgntncaagg aaanacgtcg 420
 attctcatga aaagggtgaa cttttgatgc ctaccggntc tnaatnt 467

<210> 415
 <211> 441
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(441)
 <223> unsure at all n locations
 <400> 415

ggcnagcgag tgtggctgcc gcttnctctg cgagtnaggc gccatttaat aattcaattg 60
 gaccnccaag cccacgcttc cgaattcacc gactcctcct ncacgccgcg tcgagatcgc 120
 tcaggccttc gcttccagca actccaccac tcagnccacc cgccggagca atggggagca 180
 cngggcgcgga gccggaggtt acccgcgccg acttncccg tggcttcgnc ttccggcggtg 240

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ccacctgcgt gtaccagatt ganggagcga gaagggaggg aggcaaagga gacagcatat 300
 gggatgtatt tacagatgac aaagaacatg tcttanacag aagcaatgga gaaattgcaa 360
 gttgatcact accatcgatc aaggaaagac attgagctna tggcaaagtc taggnnttag 420
 cgcatacaga tttctatatc t 441

<210> 416
 <211> 407
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(407)
 <223> unsure at all n locations

<400> 416

gggcgaagtt ccgtgctcgc gctgcttctc ctgctttccg ccggaggagc ccgagcgtcc 60
 tacgacggcg agggcgaggc aggggcaggg gcagaggaga aggagaaggc tgcggcgtgg 120
 acgggcgggc tgagccggcg gagctttccc aaggggttcg tgttcgggac ggcggcgtcg 180
 gcctaccagg tggagggcat ggcgcacaag gacggccgcg ggccgagcat ttgggacgcc 240
 ttcatacaaga tccccgtagt acacttgtat ggattgcata tgaaaatgca tcgatcgtgg 300
 attgaattgg cttgacatgg ttggatnatg gcatggcaaa tggcggcgtc ctgcttttca 360
 ggcgaaattc gcaaacaacg ccaaccgcgg acgttaactg ttgacga 407

<210> 417
 <211> 307
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(307)
 <223> unsure at all n locations

<400> 417

ctcgctcact tcttcccagc ggagtgcgca gtcgtcatgg ctaangctag ccgtggtcgt 60
 gtcggcgggc gcgggcgaag ttccgtgctc gcgctgcttc tctgctttc cgccggagga 120
 gcccgagcgt cctacgacgg cgagggcgag gcaggggcag gggcagagga gaaggagaag 180
 gctgcgncgt ggacgggcgg gctgagccgg cggactttcc caaggggttc gtgttcggga 240

09976054-101501

cggcgncgtc ggcctaccag gtggagggca tgnCGcaciaa ggacggccgc tggcctagca 300
 tttggta 307

<210> 418
 <211> 272
 <212> DNA
 <213> Zea mays

<400> 418
 ctagagtcca ggtctcactc gcgaccgaga gccacagaga aatggggggcc cctgctcgtc 60
 cctggcgccg gcacgtcttc ctcgctcgtgt cgctgcagct gtccttctgt gcgccatggc 120
 aggacgagac ggccgctcga gctctcaatt tcaccaggca ggatttcccc agggccttcg 180
 tctttgggtgc cggcacgtca gcttatcagt acgaagggca accgatgaag acggaaggag 240
 cccaagcat atgggacaat ttactcatgc ag 272

<210> 419
 <211> 452
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(452)
 <223> unsure at all n locations

<400> 419
 tcggaatagt cctggacttc aactggtacg aggctcttac aaactcacct gatgaccaag 60
 cagcagccca aagagccagg gacttccaca ttggctgggt tgttgatcca ttgataaacg 120
 gacactatcc acagataatg caagatctcg tgaaggagag gctgcccagg ttcactcctg 180
 agcaggctaa actggtgaag ggctcggcag actacatcgg tatcaacgag tacacatcca 240
 gctacatgaa ggggcagaag ctggtccagc tggcgcccag tagctactct gccgattggc 300
 aggttcaata tgtttttgca cgcaatggca aaccgattgg accacaggcg aattctaagt 360
 ggctctacat cgccccgacg gggatgtacn ggtgcgtgaa ctaccttaag gagaagtatg 420
 ggaatncaac gatctacata acggagaacg ga 452

<210> 420
 <211> 450
 <212> DNA
 <213> Zea mays

09976054.101501

<220>
 <221> unsure
 <222> (1)...(450)
 <223> unsure at all n locations

 <400> 420

 atcttcccg atggcgaagg gaaagtcaat ccagaagggtg tagcgtatta caatanttng 60
 ataaactatc tgcttcagca aggcattgact ccttacatca acctttacca ctatgatctt 120
 cctcttgccg ttgagaagaa atatggaggg tggttaagcg cgaagatggc ggacttggtt 180
 acagactatg ctgacttctg ttttaagacc tacggcgatc gcgtaaagca ctgggtttaca 240
 ttcaatgagc caaggatagt agcgctactt ggctatgaca cagggtcaaa tcctcctcaa 300
 aggtgcacca gatgcgctgc tgggtgggaat tcagcaaccg aaccttacat agttgctcat 360
 aattttctct tggcacatgc tactgcagtt gcaagatacc gtacgaaata tcangctgct 420
 caaaanggta aggtccgaat agtcctggac 450

<210> 421
 <211> 464
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(464)
 <223> unsure at all n locations

 <400> 421

 tgcagttgca agataccgta cgaaatatca ggctgctcag aagggttaagg tcggaatagt 60
 cctggacttc aactggtagc aggtctttac aaactcacct gatgaccaag cagcagccca 120
 aagagccagg gacttcaca ttggctgggt tgttgatcca ttgataaacg gacactatcc 180
 acagataatg caagatctcg tgaaggagag gctgcccagg ttcactcctg agcaggctaa 240
 actggtgaag ggctcggcag actacatcgg tatcaacgag tacacattca gctacatgaa 300
 ggggcagaag ctggtccagc tggcgcccag tagctactct gccgattggc aggttcaata 360
 tgtttttgca cgcaatggca aaccgattgg accacaagcg aattctaaag tggctctaca 420
 tngncccgac ngggatgtcc nggtgcgtga actancttaa gggg 464

<210> 422
 <211> 471
 <212> DNA
 <213> Zea mays

03976054-101501

<220>
 <221> unsure
 <222> (1)...(471)
 <223> unsure at all n locations

<400> 422

ccaagttcac tcctgagcag gctaaactgg gtgaagggct cggcagacta catcggtatc 60
 aacgagtaca catccagcta catgaagggg cagaagctgg tccagctggc gccagtagc 120
 tactctgccg attggcaggt tcaatatgtt tttgcacgca atggcaaacc gattggacca 180
 caggcgaatt ctaagtggct ctacatcgcc cggacgggga tgtacgggtg cgtgaactac 240
 ctcaaggaga agtatgggaa tccaacgata tacataacgg aagaacggaa tggaccagcc 300
 tggaaacttg acccgagacc agtacctgag cgacgccacg aggggtgcggg tctacaggag 360
 ctacatcgcc caactgaaga aaggccatag accaaggagg cgaacgtggc tgggctactt 420
 cgccctgggt ctctcctccn acaacttcga ntggctggca agggttactc c 471

<210> 423
 <211> 465
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(465)
 <223> unsure at all n locations

<400> 423

cagaagggta aggtcggaat agtcctggac ttcaactggg acgaggctct tacaaactca 60
 cctgatgacc aagcagcagc ccaaagagcc agggacttnc acattggctg ggtttggtga 120
 tccattgata aacggacact atccacagat aatgcaagat ctctgaagg agaggctgcc 180
 caggttcact cctgagcagg ctaaactggg tgaaagggct cggcagacta catcggtatc 240
 aacgaagtac acattcagct acatgaaggg gcagaagctg gtccagctgg cncccaatag 300
 ctactctgcc gattggcagg ttcaatatgt tttgcacgc aatggcaaac cgattggacc 360
 acaggcgaat tctaaagtgg ctctacattg ccccgacggg gatgtacngg tgcgtgaact 420
 acctcaagga gaagtatggg aatncaacga tctacataac ggaga 465

<210> 424
 <211> 463
 <212> DNA

<213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(463)
 <223> unsure at all n locations
 <400> 424
 ctttaccact atgatcttcc tcttgcgctt gagaagaaat atggagggtg gttaagcgcg 60
 aagatggcgg acttggttac agactatgct gacttctggt ttaagaccta cggcgatcgc 120
 ggtaaagcac tgggtttacat tcaatgagcc aaggatagta gcgctacttg gctatgacac 180
 aggggtcaaat cctcctcaaa ggtgcaccag atgcgctgct ggtgggaatt cagcaaccga 240
 accttacata gttgctcata attttctctt ggcacatgct actgcagttg caagataccg 300
 taccgaaata tcaggctgct canaagggtta aaggtcggaa tagtcctgga cttcaactgg 360
 gaccaaggct nttacaaact tnaccttgat gaccaagca nnangcccna aaaagccagg 420
 ggccctncac atggctnggt ttggtngatc cattgataaa ccg 463
 <210> 425
 <211> 319
 <212> DNA
 <213> Zea mays
 <400> 425
 tgctactgca gttgcaagat accgtacgaa atatcaggct gtcagaagg gtaaggctcg 60
 aatagtcctg gacttcaact ggtacgaggc tcttaciaaac tcacctgatg accaagcagc 120
 agcccaaaga gccagggact tccacattgg ctgggtttggt gatccattga taaacggaca 180
 ctatccacag ataatgcaag atctcgtgaa ggagaggctg cccagggttca ctctgagca 240
 ggctaaactg gtgaagggtc cggcagacta catcggtatc aacgagtaca catccagcta 300
 catgaagggc agaactggt 319
 <210> 426
 <211> 453
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(453)
 <223> unsure at all n locations
 <400> 426

atcttcccgg atggcggaagg gaaagtcant ccagaaggtg tagccgtatt acaatagttt 60
gataaactat ctgcttcagc aaggcatgac tccttacatc aacctttacc actatgatct 120
tntctcttgcg cttgagaaga aatatggagg gtgggtaagc gcgaagatgg cggacttggt 180
tacagactat gctgacttct gttttaagac ctacngcgat cgcgtaaagc actgggtttac 240
attcaatgag ccaaggatag tagcgctact tggctatgac acaggggtcaa attctcctca 300
aagggtgcacc aaatgcnctg ctggtnngaa ttcagcaacc gancnttaca tatttgctca 360
taattatctn ttggcacatn ctantncagt tgcnnagatn ccggacgaan ttnnngctgc 420
tcanaaanng ttagngtnag gaattantcc tgg 453

<210> 427
<211> 377
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(377)
<223> unsure at all n locations

<400> 427

ctacctcaag gagaagtatg ggaatccaac gatctacata acggagaacg gaatggacca 60
gcctggaaac ttgacccgag accagtacct gcgcgacgcc acgaggggtgc gggtctacag 120
gagctacatc ggccagctga agaaggccat agaccaggga gcgaacgtgg ctggctactt 180
ctcctgggtct ctcctcgaca attcgagtgg ctggcaggggt actcgtccaa gttcggcatc 240
gtctacgtgg acttcaacac gctcgaacgc caccgaagg cgtcggccta ctngttcang 300
gacatgcttc agaagcattg agatctccag agccgagcct gagcacggaa ngtaccattt 360
tggtcagctt cgcctag 377

<210> 428
<211> 302
<212> DNA
<213> Zea mays

<400> 428

cggacttggt tacagactat gctgacttct gttttaagac ctacggcgat cgcgtaaagc 60
actgggtttac attcaatgag ccaaggatag tagcgctact tggctatgac acaggggtcaa 120
atcctcctca aagggtgcacc agatgcgctg ctggtgggaa ttcagcaacc gaaccttaca 180

tagttgctca taattttctc ttggcacatg ctactgcagt tgcaagatac cgtacgaaat 240
atcaggctgc tcagaagggt aaggctggaa tagtcctgga cttcaactgg tacgaggctc 300
tt 302

<210> 429
<211> 455
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(455)
<223> unsure at all n locations

<400> 429

ccangccttc ggaaaccgnt tggncanag gncaattcta angggnttta nattnggccc 60
gaccgggatn taccgggtnc ctinnacctan ctttaagggan aaagatnggg aatccaacga 120
tctacataac ggagaacgga atggaccaac ctggaaactt gacccgagac cagtacctgc 180
gcgacgccac gaggtgctgc ttctacagga gctacatcgg ccagctgaag aaggccatag 240
accagggagc gaacgtggct ggctacttcg cctgggtctct cctcgacaac ttcgagtggc 300
tggcagggta ctcgtccaag ttcggcatcg tctacgtgga cttcaacacg ctcgaacgcc 360
acccgaaggc gtcggcctac tggttcaagg gacatgcttc agaagcattg agatctncag 420
agcccgagcc tgagcacgga aggtaccatt tttgt 455

<210> 430
<211> 312
<212> DNA
<213> Zea mays

<400> 430

cagaagggta aggtcggaat agtcctggac ttcaactggt acgaggctct taaaaactca 60
cctgatgacc aagcagcagc ccaaagagcc agggacttcc acattggctg gtttgttgat 120
ccattgataa acggacacta tccacagata atgcaagatc tcgtgaagga gaggtgccc 180
aggttcactc ctgagcaggc taaactgggtg aagggtcgg cagactacat cggtatcaac 240
gagtacacat ccagctacat gaaggggcag aagctggtcc agctggcgcc cagtagctac 300
tctgccgatt gg 312

<210> 431
<211> 305
<212> DNA
<213> Zea mays

<400> 431

cgaaatatca ggctgctcag aagggtaagg tcggaatagt cctggacttc aactggtacg 60
aggetcttac aaactcacct gatgaccaag cagcagccca aagagccagg gacttccaca 120
ttggctggtt tgttgatcca ttgataaacg gacactatcc acagataatg caagatctcg 180
tgaaggagag gctgcccagg ttcactcctg agcaggctaa actggtgaag ggctcggcag 240
actacatcgg tatcaacgag tacacatcca gctacatgaa ggggcagaag ctggtccagc 300
tggcg 305

<210> 432
<211> 299
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(299)
<223> unsure at all n locations
<400> 432

tgctactgca gttgcaagat accgtacgaa atatcaggct gtcagaagg gtaaggctcg 60
aatagtcttg gacttcaact ggtacgaggc tcttaciaaac tcacctgatg accaagcagc 120
agcccaaaga gccagggact tccacattgg ctggtttggt gatccattga taaacggaca 180
ctatccacag ataatgcaag atctcgtgaa ggagaggctg cccagggttca ctctgagca 240
ggctaaactg gtgaanggct cggcagacta catcggtatc aacgagtaca catccagct 299

<210> 433
<211> 323
<212> DNA
<213> Zea mays

<400> 433

gctgggtccag ctggcgccca gtagctactc tgccgattgg caggttcaat atgtttttgc 60
acgcaatggc aaaccgattg gaccacaggc gaattctaag tggtcttaca tcgccccgac 120
ggggatgtac ggggtgcgtga actacctcaa ggagaagtat gggaaatcaa cgatctacat 180
aacggagaac ggaatggacc agcctggaaa cttgaccgca gaccagtacc tgcgcgacgc 240

cacgaggggtg cggttctaca ggagctacat cggccagctg aagaaggcca tagaccaggg 300
agcgaacgtg gctggctact tcg 323

<210> 434
<211> 295
<212> DNA
<213> Zea mays

<400> 434

ggcgaattct aagtggctct acatcgcccc gacggggatg tacgggtgcg tgaactacct 60
caaggagaag tatgggaatc caacgatcta cataacggag aacggaatgg accagcctgg 120
aaacttgacc cgagaccagt acctgcgcga cgccacgagg gtgcggttct acaggagcta 180
catcggccag ctgaagaagg ccatagacca gggagcgaac gtggctggct acttcgcctg 240
gtctctcttc gacaacttcg agtggctggc aggttactcg tccaagttcg gcac 295

<210> 435
<211> 287
<212> DNA
<213> Zea mays

<400> 435

tcttctctt gcgcttgaga agaaatatgg aggggtggta agcgcgaaga tggcggactt 60
gtttacagac tatgctgact tctgttttaa gacctacggc gatcgcgtaa agcactgggt 120
tacattcaat gagccaagga tagtagcgt acttggctat gacacagggc caaatcctcc 180
tcaaaggtgc accagatgcg ctgctgggtg gaattcagca accgaacctt acatagttgc 240
tcataatttt ctcttggcac atgctactgc agttgcaaga taccgta 287

<210> 436
<211> 472
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(472)
<223> unsure at all n locations

<400> 436

gggacnncga gattnantgg tttgtcagat ccattgataa acnggacact annacacat 60
gggtnnngga tntnatnaag gagagcctgc ccanttcac tcctgagcag nctagactgg 120

ngaagggctc ganagactac atcggtatca acgagtacac atccagctac atgaaggggc 180
 anaagctggg ccanntgcgc ccagtancta ctctgccgat tggcagggtc aatatgngtt 240
 tgcacgcaat gncanaccga ttggaccaca gnnaagttct aagtggctct acatcgcccn 300
 nacggggatg tacgggtgcg tgaactacct caangagaag tatgngaatac caacggatct 360
 acataacgga gaacggaatg gaccaacctg gaaacttgac ccgagaccag tacctgcgcg 420
 annccacgaa ngtgcggntc tacaggaact acatnggcca tntnaataaa gg 472

<210> 437
 <211> 301
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(301)
 <223> unsure at all n locations

<400> 437
 agataccgta cgaaanatca ggctgctcag aagggttaagg tcggaatagt cctggacttc 60
 aactggtacg aggtctcttac aaactcacct gatgaccaag cagcagccca aagagccagg 120
 gacttccaca ttggctgggt tgttgattcc attgataaac ggacactatc cacagataat 180
 gcaagatctc gtgaaggaga ggctgcccag gttcactcct gagcaggcta aactggtgaa 240
 aggtcggca gactacatcg gtatcaacga gtacacatcc agctacatga aggggcagaa 300
 g 301

<210> 438
 <211> 297
 <212> DNA
 <213> Zea mays

<400> 438
 caagcagcag cccaaagagc cagggacttc cacattggct ggtttggtga tccattgata 60
 aacggacact atccacagat aatgcaagat ctctgtaagg agaggctgcc cagggtcact 120
 cctgagcagg ctaaactggg gaagggtcgc gcagactaca tcggtatcaa cgagtacaca 180
 tccagctaca tgaaggggca gaagctgggtc cagctggcgc ccagtagcta ctctgccgat 240
 tggcagggtc aatatgtttt tgcacgcaat ggcaaaccga ttggaccaca ggccaat 297

<210> 439
 <211> 281
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(281)
 <223> unsure at all n locations

 <400> 439

 gttttaagac ctacggcgat cgcgtaaagc actgggttac attcaatgag ccaaggatag 60
 tagcgctact tggctatgac acaggggtcaa atcctcctca aaggtgcacc agatgcgctg 120
 ctggtgggaa ttcagcaacc gaaccttaca tagttgcnca taattttctc ttggcacatg 180
 ctactgcagt tgcaagatac cgtacgaaat atcaggctgc tcagaagggt aaggctcgaa 240
 tagtctgga cttcaactgg tacgaggtc ttacaaactc a 281

<210> 440
 <211> 306
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(306)
 <223> unsure at all n locations

 <400> 440

 cggaatggac cagcctggaa acttgacccg agaccagtac ctgcgcgacg ccacgaggggt 60
 gcggttctac aggagctaca tcggccagct gaagaaggcc atagaccagg gagcgaacgt 120
 ggetggctac ttncctggt ctctcctcga caacttcgag tggctggcag ggtactcgtc 180
 caagttcggc atcgtctacg tggacttcna cacgctcgaa cgccacccga aggcgtcggc 240
 ctactngttc agggacatgc ttcagaagcn tgagatctcc aganccgagc ctgagcacgg 300
 aagtac 306

<210> 441
 <211> 294
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(294)
 <223> unsure at all n locations

09976054-101501

<400> 441

gggacttcca cattggctgg tttgttgatc cantgataaa cggacactat ccacagataa 60
 tgcaagatct cgtgaaggag aggctgcccc ggttcactcc tgagcaggct aaactggtga 120
 agggctcggc agactacatc ggtatcaacg agtacacatc cagctacatg aaggggcaga 180
 agctgggtcca gctggcgccc agtagctact ctgccgattg gcaggttcaa tatgtttttg 240
 cacgcaatgg caaaccgatt ggaccacagg cgaattctaa gtggctctac atcg 294

<210> 442

<211> 471

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(471)

<223> unsure at all n locations

<400> 442

gcgtccacca acggccgggg cccctccatc tgggattcat tcgcgcacgt cccaggaaat 60
 attgcnngga atcaaaatgg agacgttgca gtggatcaat accatcgcta caaggaagac 120
 gtogatctca tgaaaagttt gaactttgat gcctaccggg tctcaatctc atggtccagg 180
 atcttcccgg atggcgaagg gaaagtcaat ccagaagggt tagcgtatta caataatttg 240
 ataaactatc tgcttcagca aggcattgact ccttacatca acctttacca ctatgatctt 300
 cctcttgccg ttgagaagaa atatgggagg gtggttaagc cgcgaaagat ggcgggactt 360
 ggttacagac tatgctgact tctggtttaa gacctacggn gaatcgcgtn aaagcactgg 420
 gttacanttc atngnccaa ggtagtacc gctacttggg ttttnaacia g 471

<210> 443

<211> 452

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(452)

<223> unsure at all n locations

<400> 443

gttcttgatc agattgttga cttttatttg nnnngncaga aagntanngn cnggaanagt 60

cctggacttc aacnggtacg aggtctcttac aaactcacct gatgaccaag caancancnn 120
 aaanagccag gnacttgac atnggcnggn nngtagatcc attgataaac ggacactatc 180
 cacagataan gcaagatctc gcgaaggaga ggctgccag gttcactccn gagcaggcta 240
 aactggtgaa gggctcgnca gactacatcn gtatcaacga gtacacatcc aactacatga 300
 angggggcana anctgganca gctggcccc aggantact ctgccgaatg gcagggtcaa 360
 tatgtnttg cacgcaatgg caaaccatt ggaccacaag ccaatctaag nggctctana 420
 tngccccgac cgggattgta cnggtncctg aa 452

<210> 444
 <211> 264
 <212> DNA
 <213> Zea mays

<400> 444

cagaagggtg aggtcggaat agtcctggac ttcaactggt acgaggctct taaaaactca 60
 cctgatgacc aagcagcagc ccaaagagcc agggacttcc acattggctg gtttggtgat 120
 ccattgataa acggacacta tccacagata atgcaagatc tcgtgaagga gaggctgccc 180
 aggttcactc ctgagcaggc taaactggtg aagggtcgg cagactacat cggtatcaac 240
 gagtacacat ccagctacat gaag 264

<210> 445
 <211> 263
 <212> DNA
 <213> Zea mays

<400> 445

ggctatgaca cagggtcaaa tcctcctcaa aggtgcacca gatgcgctgc tggtggaat 60
 tcagcaaccg aaccttacat agttgctcat aattttctct tggcacatgc tactgcagtt 120
 gcaagatacc gtacgaaata tcaggctgct cagaagggtg aggtcggaat agtcctggac 180
 ttcaactggt acgaggctct taaaaactca cctgatgacc aagcagcagc ccaaagagcc 240
 agggacttcc acattggtgg ttt 263

<210> 446
 <211> 297
 <212> DNA
 <213> Zea mays

<400> 446

09976054.101501

gatgaccaag cagcagccca aagagccagg gacttccaca ttgggctggg ttgttgatcc 60
attgataaac ggacactatc cacagataat gcaagatctc gtgaaggaga ggctgcccag 120
gttcactcct gagcaggcta aactgggtgaa gggctcggca gactacatcg gtatcaacga 180
gtacacatcc agctacatga aggggcagaa gctgggtccag ctggcgccca gtagctactc 240
tgccgattgg cagttcaata tgtttttgca cgcaatggca aaccgattgg accacag 297

<210> 447
<211> 298
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(298)
<223> unsure at all n locations

<400> 447
cggacacnat ccacagataa tgcaagatct cgtgaaggag aggctgcccag ggttcactcc 60
tgagcagggt aaactgggtga agggctcggc agactacatc ggtatcaacg agtacacatc 120
cagctacatg aaggggcaga agctgggtcca gctggcgccc agtagctact ctgccgattg 180
gcagggttcaa tatgtttttg cagcgaatgg caaaccgatt ggaccacagg cgaattctaa 240
gtggctctac atcgccccga cggggatgta cgggtgcgtg aatcacctcn aggagaag 298

<210> 448
<211> 301
<212> DNA
<213> Zea mays

<400> 448
cactcctgag caggctaaac tgggtgaagg ctcggcagac tacatcggtg tcaacgagta 60
cacatccagc tacatgaagg ggcagaagct ggtccagctg gcgcccagta gctactctgc 120
cgattggcag gttcaatatg tttttgcacg caatggcaaa ccgattggac cacaggcgaa 180
ttctaagtgg ctctacatcg ccccgacggg gatgtacggg tgcgatgaact acctcaagga 240
gaagtatggg aatccaacga tctacataac ggagaacgga atggaccagc ctggaaactt 300
g 301

<210> 449
<211> 322

0997604-101501

<212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(322)
 <223> unsure at all n locations

 <400> 449

 tcggtatcaa cgagtacaca tccagctaca tgaaggggca gaagctggtc cagctggcgc 60
 ccagtagcta ctctgccgat tggcagggtc aatatgtttt tgcacgcant ggcaaaccga 120
 ttggaccaca ggcgaattct aagtggctct acatcgcccc gacgggggatg tacgggtgcg 180
 tgaactacct caaggagaag tatgggaatc caacgatcta catnacggag aacggaatgg 240
 accagcctgg aaattgaccc gagaccagta cctgcgcgac gccacgaggg tgcggttcta 300
 caggagtaca tcggccanct ga 322

<210> 450
 <211> 459
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(459)
 <223> unsure at all n locations

 <400> 450

 cangnnnntc agaanggtna ggnccgaatt ttcnngtact nnaactggta cgaggctctg 60
 nggaacngnc ctnatgacca agcannannc canagagccn gngacttcca cattggctgg 120
 nttgntgatc catngataaa cggacactat ccacagatna tgcaagatct cgngaaggaa 180
 aggctgncca ngttcactcc tgagcaggct aaactgggtga agggctcggc agactacatc 240
 ggtatcaacg agtacacatc cagctncatg aagggggcaga agctgggtcca gctggcgccc 300
 antaactact ctgccnattg gcaagttcaa tatntnttng caccantng caaaaccnat 360
 tnntccaaca gcgaattcta agtgggggtct acatcacccc cgacaggngn tgtaccgggt 420
 gccntgaact accctnaaag ganaaagnat ngggaattc 459

<210> 451
 <211> 272
 <212> DNA
 <213> Zea mays

09976054-101501

<220>
 <221> unsure
 <222> (1)...(272)
 <223> unsure at all n locations

<400> 451

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gtcggaaatag tcttgggact tcaactggta cgaggctctt acaaactcac ctgatgacca 60
agcagcagcc caaagagcca gggacttcca cattggctgg tttgttgatc cattgataaa 120
cggacactat ccacagataa tgcaagatct cgtgaaggag aggctgcca ggttcactcc 180
tgnnccaggct aaactgggtga agggctcggc agactacatc ggtatcaacg agtacacatc 240
cagctacatg aaggggcaga agctgggtcca gc 272
```

<210> 452
 <211> 447
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(447)
 <223> unsure at all n locations

<400> 452

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gcgacgtcgg cgtaccaggt cgagggcgcc gcgtccacca acggccgagg cccctccacc 60
tgggacgcgt tcgtgcacac cccaggaaac attgtataca atcagacggc agatgtcgca 120
gtggatcaat atcatcgcta cagggaagat gtcgacctca tgaaaagttt gaattttgat 180
gcctaccggt tttcaatctc atgggtccagg atcttcccag atggcgaggg aagagtcaat 240
ccagaagggtg ttgcctatta caacaatctg ataaactacc tgcttcggaa aggcattaca 300
ccgtacgcca atccttacca ttcccgatcc tcccctcttg cgcttcaaga acaagtatgg 360
gaggggtgggt taaatngcca agatggcgaa nactgttcac aagnctangc cgaacttccg 420
gttttaaaga ctttggggga accgtng 447
```

<210> 453
 <211> 244
 <212> DNA
 <213> Zea mays

<400> 453

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cgtacgaaat atcaggctgc tcagaagggt aaggtcggaa tagtcctgga cttcaactgg 60
tacgaggctc ttacaaactc acctgatgac caagcagcag cccaaagagc cagggtcttc 120
```

cacattggcg gtttgttgat ccattgataa acggacacta tccacagata atgcaagatc 180
 tcgtgaagga gaggctgccc aggttcactc ctgagcaggc taaactggtg aagggtcgg 240
 caga 244

<210> 454
 <211> 258
 <212> DNA
 <213> Zea mays

<400> 454

gcaagatctc gtgaaggaga ggctgcccag gttcactcct gagcaggcta aactggtgaa 60
 gggctcggca gactacatcg gtatcaacga gtacacatcc agctacatga aggggcagaa 120
 gctggtccag ctggcgccca gtagctactc tgccgattgg caggttcaat atgtttttgc 180
 acgcaatggc aaaccgattg gaccacaggc gaattctaag tggctctaca tcgccccgac 240
 ggggatgtac ggggtcgt 258

<210> 455
 <211> 263
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(263)
 <223> unsure at all n locations

<400> 455

acggacacta tccacagata atgcaagatc tcgtgaagga gaggctgccc aggttcactc 60
 ctgagcaggc taaactggtg aagggtcgg cagactacat cggtatcaac gactacacat 120
 ccagctacat gaaggggcag aagctggtcc agctggcgcc cagtagctac tctgccgatt 180
 ggcagggttca atatgttttt gcacgcaatg gcaaaccgat tggaccacag gcgaattcta 240
 agtggctcta catcgccccg ang 263

<210> 456
 <211> 266
 <212> DNA
 <213> Zea mays

<400> 456

gcaaccgaac cttacatagt tgctcataat tttctcttgg cacatgctac tgcagttgca 60

agataccgta cgaaatatca ggctgctcag aagggttaagg tcggaatagt cctggacttc 120
aactggtacg agggctctta caaactcacc tgatgaccaa gcagcagccc aaagagccag 180
ggacttccac attggctggg ttgttgatcc attgataaac ggacactatc cacagatatg 240
cagatctcgt gaaggagagg ctgccc 266

<210> 457
<211> 231
<212> DNA
<213> Zea mays

<400> 457

agcgcggaaga tggcggactt gtttacagac tatgctgact tctgttttaa gacctacggc 60
gatcgcgtaa agcactgggt tacattcaat gagccaagga tagtagcgct acttggctat 120
gacacagggg caaatcctcc tcaaagggtgc accagatgcg ctgctgggtgg gaattcagca 180
accgaacctt acatagttgc tcataatddd ctcttggcac atgctactgc a 231

<210> 458
<211> 248
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1) ... (248)
<223> unsure at all n locations

<400> 458

anctggtcca gctggcgccc agtagctact ctgccgattg gcaggttcaa tatgtttttg 60
cacgcaatgg caaaccgatt ggaccacagg cganttctaa gtggctctac atcgccccga 120
cggggatgta cgggtgcgtg aactacctca aggagaagta tgggaatcca acgatctaca 180
taacggagaa cggaatggac cagcctggaa acttgaccgc agaccagtac ctgcgcgacg 240
ccacgagg 248

<210> 459
<211> 482
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1) ... (482)

<210> 462
 <211> 196
 <212> DNA
 <213> Zea mays

<400> 462

cccaggttca ctcttgagca ggctaaactg gtgaagggct cggcagacta catcggtatc 60
 aacgagtaca catccagcta catgaagggg cagaagctgg tccagctggc gcccagtagc 120
 tactctgccg attggcaggt tcaatatgtt tttgcacgca atggcaaacc gattggacca 180
 caggcgaatt ctaagt 196

<210> 463
 <211> 184
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(184)
 <223> unsure at all n locations

<400> 463

aganatatgg aggggtggta agcgcgaaga tggcggactt gtttacagac tatgctgact 60
 tctgttttaa gacctacggc gatcgcgtaa agcactgggt tacattcaat gagccaagga 120
 tagtagcgct acttggctat gacacagggt caaatcctcc tcaaaggtgc accagatgcg 180
 ctgg 184

<210> 464
 <211> 192
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(192)
 <223> unsure at all n locations

<400> 464

gaaggagagg ctgcccaggt tcaactctga gcaggctaaa ctggtgaagg gctcggcaga 60
 ctacatcggt atcaacgagt acacatccag ctacatgaag gggcagaagc tgggccagct 120
 ggcgcccagt agctactctg ccgattggca ggttcaatat gtttttgac ncnatggcaa 180
 accgattgga cc 192

<210> 465
 <211> 354
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(354)
 <223> unsure at all n locations

<400> 465

aaaaacatag gctgctcaga agggtaaggt cggaatagtc ctgganttca actggtacga 60
 ggctcttaca aactcacctg atgaccaagc agcaacnaa agagccaggg acttccacat 120
 tggctgggtt gtngatncat tgataaacgg acatatccnc agataatgca agatctcgtg 180
 aaggagaggt gcccgagtna acnctgagna ggctaaactg gtgaagggnn tnggnagact 240
 acatcgtntc acggagtaca cntcnagtac angaaggggc aaaactggtc cagtgnngcc 300
 cantagtact ntccngnttg gcaggntcat atgttgngat taatncttgt nttt 354

<210> 466
 <211> 266
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(266)
 <223> unsure at all n locations

<400> 466

ccgcgcgtcg ttccccaagg ggttcgtgtt cgggacggcg acgtcggcgt accaggtcga 60
 gggcgccgcg tccaccaacg gccgcngccc ctccatctgg gattcantcg cgcacgtccc 120
 aggaaatatt gcagggaatc aaaatggaga cgttgcagt gatcaatacc atcgctacaa 180
 ggaagacgtc gatctcatga aaagtttgaa ctttgatgcc taccggttct caatctcatg 240
 gtccaggatc ttcccggatg gcgaag 266

<210> 467
 <211> 286
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(286)

09976054-101501

<223> unsure at all n locations

<400> 467

gnnaccgana cttacatagt tgcncataat tnnnctentg gcacangcta ctgcngttgc 60
nagataccgt acganatatac aggctgctca gaagggttaag gtcggantag tcttggactt 120
naantggtan gaggtctctta caaactcacc tgatgngcca agcagcagcc caaagagcca 180
gggacttcca cattggctgg tttgttgatc cattgataaa cggacactat ccacagataa 240
tgcaagatct cgtgaaggag aggctgcccc gggttactcc tgagca 286

<210> 468

<211> 351

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(351)

<223> unsure at all n locations

<400> 468

ggcggacttg tttacagact atgctgactn ctgttttaag acctacggcg atcgcgtana 60
gcactggtn acnttncaat gagccaagg naggaggcgt acttggctat gacacagggg 120
caaatacctcc tcaaagggtgc accagatgag cngctgggtg gattcngcna ccgaacnta 180
catngttgct cataattntc ncttggcaca tgctactgtn ttgcaaganc cggacganaa 240
tcaggctgct cagaagggna ggtnggaata cccnggnttc cantgnctag gncgtncnaa 300
tcactgatga cnagcgagna gcccnaaagn cagggtctnn acattgcggg t 351

<210> 469

<211> 197

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(197)

<223> unsure at all n locations

<400> 469

ctttgatnac ctaccgggttc tcaatctcat ggtccaggat cttcccngat ggccaagggg 60
aagtcaatcc agaagggtgta gcgtattaca ataatttgat aaactatctg cttcagcaag 120
gcatgacncc cttacatcaa cctttaccac tatgatntc ctcttgcgct tgagaagaaa 180

tatggagggt ggttaag 197

<210> 470
<211> 245
<212> DNA
<213> Zea mays

<400> 470

cgctacaagg aagacgtcga tctcatgaaa agtttgaact ttgatgccta ccggttctca 60
atctcatggt ccaggatctt cccggatggc gaagggaaaag tcaatccaga aggtgtagcg 120
tattacaata atttgataaa ctatctgctt cagcaaggca tgactcctta catcaacctt 180
taccactatg atcttctctt tgcgcttgag aagaaatatg gaggggtggtt aagcgcgaag 240
atggc 245

<210> 471
<211> 166
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(166)
<223> unsure at all n locations

<400> 471

gnnncgttgc agtggatcaa taccatcgct acaaggaaga cgtcgatctc atgaaaagtt 60
tgaactttga tgcctaccgg ttctcaatct catgggtccag gatctncccg gatggcgnag 120
ggaaagtcaa tccagaaggt gtagcgtatt acaataattt gataaa 166

<210> 472
<211> 99
<212> DNA
<213> Zea mays

<400> 472

gcgtattaca ataatttgat aaactatctg cttcagcaag gcatgactcc ttacatcaac 60
ctttaccact atgatcttcc tcttgcgctt gagaagaaa 99

<210> 473
<211> 455
<212> DNA
<213> Zea mays

09976054-101501

<220>
 <221> unsure
 <222> (1)...(455)
 <223> unsure at all n locations

<400> 473

gaaaagtgtg aactttgatg cctaccggtt ctcaatctca tggncanga tttttccggn 60
 tggngaaagg aaangcaatc caaaaagggg aaccgnatta caataatttg gtaaactatn 120
 tgggtttaaca agggntgnaa ttcttanatt aaaccttacc cctattgaac tttccttttg 180
 cgccttgnaa agaaaaatn ggaggggtggg nttaancccc aaaaatggcg ggactttggtt 240
 tacaggacta tgctgacttc tgggtttaag acctacggcg atcgcgtaaa gcactggggtt 300
 tacattcaat gagccaagga tagtaaccgc tacttggtga tgacacangg tcaaactcctt 360
 ctcaaangtg caccagatgc gctgctgggtg ggaattcaag caaccgaac cttacataag 420
 ttgctcataa ttttctcttt tngggggcac atgct 455

<210> 474
 <211> 315
 <212> DNA
 <213> Zea mays

<400> 474

ggccaagcta gtcaagggct catcaggtgt gaaattggta gccggtcttt cacaatgtct 60
 tgcattatct ttggatattg cccatttatt aatggatcaa gaaaccaacc aatatggaag 120
 tccctggccc tttgcgctgc tttttgatct tcagttgagt ttgtaaaagg ttcataaccag 180
 ttgaagtcaa gaactatccc gaccttgctt ttctgagttg cctgggtatct attgcggtat 240
 cttgcaactg cagtagcatg agataggaga atgttatgaa caacaatgta aggttctgtc 300
 gatgagttcc caccg 315

<210> 475
 <211> 285
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(285)
 <223> unsure at all n locations

<400> 475

ctcatgctac tgtcagttgc aagataccgc aataaatacc aggcaactca nnaaggcaan 60
gtcgggatnc ttcttgantt caactgggtat gaacctttta caaactcaac tgaagatcaa 120
ancgcnccgc aaagggccag ggacttccat attggttggt ttcttgatcc attaataant 180
gggcaatatc caaagataat gcaagacatt gtgaaagacc ggctaccaag tttnacacct 240
gaacaggcca agctagtcaa gggctcatca gactatttcg ggatc 285

<210> 476

<211> 327

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(327)

<223> unsure at all n locations

<400> 476

gctccgtaaa gctcgcggtg cttgctcttc tgctagcngc agcagctcac cacgggtctgc 60
tgccgtgccg acggcgcgat gctactgggc tcaaccgga gatctacgac gccggcgcg 120
tgagcngccg cgcgttcccg gatggcttcg tctactggac ggctgcgctg gcgtaccagg 180
tcgaggggat ggccaagcac ggcgggcggg gccccagcat ctgggacgcc ttcatagagg 240
ttcccgggac catccctaac aatgccaccg tgacgtgacg gtcgacgagt atcatcggt 300
caaggaagat gtgaacataa tgaagaa 327

<210> 477

<211> 180

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(180)

<223> unsure at all n locations

<400> 477

cgcggtgctt gctcttctgc tagcggcagn agtcaccac ggtctgctgc cgctgccgac 60
ggcgcgatgc tactggctca acccgagat ctacgacgcc ggcgcgctga gccgccg 120
gttcccgat ggattcgtct tcgggacggc tgcgtcggcg taccaggtcg aggggatggc 180

<210> 478

<211> 434

09976054-101501

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<212>      DNA
<213>      Zea mays

<220>
<221>      unsure
<222>      (1)...(434)
<223>      unsure at all n locations

<400>      478

ccctatagtn agtcgtatta aaagcgcggc ctgtgtctcc ggcctttgcc gcttccacag   60
ggagtcgagg gccatgcatg agctccgtaa agctcgcggt gcttgctcta ctgctagcgg   120
nagcagctca ccacggtctg ctgccgctgc cgacggcgcg atgctactgg ctcaaccgga   180
agatctacga cgccggcgagg ctgagccgcc gcgcgttccc ggacagnttc gtcttcggga   240
cggccggcgt cggcgtagca gggtcganng ggatggccan gcacaggcgg ngcgggngcn   300
ccangcatct gggangcctt catnggaggn tcttggganc agccnaana ntgncaccnc   360
ggncgnnacg gtcnacgaat tatcagcggt ttcaanggna cgatgntnga gnnnnggaaa   420
gagcatgnng cttt                                                    434

<210>      479
<211>      233
<212>      DNA
<213>      Zea mays

<220>
<221>      unsure
<222>      (1)...(233)
<223>      unsure at all n locations

<400>      479

cagacgctng gcgagnaatc atcgaagact tcaccgcgta cncagacgtg tncttccgga   60
gcttcggcga aagggtgaag cactggatca cgggtaacga gcccaacatc gagcccatcg   120
gcggtctacga ccaaggctac ctcccgccgc gccgctgctc ctaccggttt ggactgggag   180
tcaatgcacc cagggcaact ccacgacgga nccgtagccg tcncccanca cct          233

<210>      480
<211>      268
<212>      DNA
<213>      Glycine max

<400>      480

ctttattgca gaacgtgttg gggtagcatgt tgtggagtgt gcttgtgtga ttgaattgcc   60

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agagttaaag gggcgggaaa gggtgggaga caagtcgcta tttgtcttga ttaatggggg 120
 agcctgatct tttttccaag tgattgtgtt tttattagct ggctcttggt aggagcttta 180
 ttgatgactg cttagatttc cttaagatac attttgatgc tgcggaaacg gaaagcgtgc 240
 tttgtttgag cgcgctcagt tctgctca 268

<210> 481
 <211> 227
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(227)
 <223> unsure at all n locations
 <400> 481

aatgtttcaa gacataacga cattgttggt ggatcacaag gcgtttaaag aactgtcga 60
 cntttttgtc gatcggtaca gagacatggc acatttccgt tgttgccgga attgaggcta 120
 ggggggttcat gtttggtccc tcaattgcgt tgggcattgg tgcaaagttt gttccnttac 180
 gcaaacacgg aagctgcca gtgaagtaat ttcagnaana tatgctc 227

<210> 482
 <211> 259
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(259)
 <223> unsure at all n locations
 <400> 482

cgactntcnt aagccaggaa tnttgnntna ggacataacc acgctgcttc nggatnccaa 60
 aggctttcaa agacaccatt gacntgtttg nngagaggta cagagatcaa aacatcaatg 120
 tngtcgcagg agttgaagct agaggcttta tatttggtcc acccagtgc ntaggcantg 180
 gagcaaaant tgtccccang agganaccca anaaattgcc gggggngggt atcncagagg 240
 ggtatcnttg gnggagggga 259

<210> 483
 <211> 142
 <212> DNA
 <213> Glycine max

09976054-101301

<400> 483
aatggagatg catgtagggg ctgtacaacc tggagaacga gccttaatca tagatgatct 60
tattgccact gggggaacgt taggtgcagc aattaagctt ctagaacgtg ttggggtgca 120
tgttgtggag tgtgctgtgt ga 142

<210> 484
<211> 270
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(270)
<223> unsure at all n locations

<400> 484
tttttctctc tgtactcaga ctcaacttccc cacttattta tacantgtcg gcttacaaaag 60
accaggatag ccggtcttcat ngcatcanan ctaaggtncg tgtcgtcccc aatttcccca 120
gatccggaat tgaagctcga ggttttatatt ttggtcctcc cattgcgctg gctataggag 180
caaagtttgt accattgagg aaaccaaagg agttgcctgg aaaagttatt tctcangaat 240
atattctgga atatggaagg gactgtcttg 270

<210> 485
<211> 247
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(247)
<223> unsure at all n locations

<400> 485
gactnttcna acataatacn nttnttcgn ttgtgnttgg ttgcgcacgc aagnacgtta 60
caataatggc ttcgaagnat tctcaacaag acacgcgctt agcgannatc gcctctgcaa 120
tccngtcat ccccgacttt cctaagccag ggnttttgtg ncaggacata accncngtgc 180
ttcttgntac naaggctttc naagacacca ttganttgn tgtngagagg tacagaganc 240
aaaacat 247

<210> 486

<211> 268
 <212> DNA
 <213> Glycine max

 <400> 486

 ttgatacaaa ggctttcaaa gacaccgttg acttgtttgt tgagaggtac agagatcaaa 60
 acatcaatgt tgtcgcagga gttgaagcaa ggggctttat atttggtcca cccattgcat 120
 tagctattgg agcaaaatth gtcccatga ggaaacccaa taaattgcct ggggaggtta 180
 tctcagaaga gtattctttg gagtatggaa cagacaaaat ggagatgcat gtaggggctg 240
 tacaacctgg agaacgagcc ttaatcat 268

<210> 487
 <211> 261
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(261)
 <223> unsure at all n locations

<400> 487

 ggtgctgaag tgggtggaatg tgctgtgtc attggtgtgc ctgatgtcaa ggggcagtgc 60
 aggcgtattg gaaagccact ttatgttctt gttgagccgc gtaaagcaga taaatgttac 120
 ccagattgac atactaaagg acgctgggtg tgagnnacac aggccataat gtgaccta 180
 agtttttaggc tgatggagtc gtgttcatgg caattgtcaa atatcatcct gggaaatgtt 240
 catcctgttt catatcttat c 261

<210> 488
 <211> 283
 <212> DNA
 <213> Glycine max

<400> 488

 gttcctttac gcaaaccacg gaagctgcca ggtgaagtaa tttcagaaaa atatgctcta 60
 gaatatggaa ctgattgctt ggagttgcat gttggtgctg ccagcccgg tgaacgggcc 120
 ataataattg atgacttggg ggccacaggt ggaactctgt cagcaggagt aaaacttcta 180
 gaacgtgttg gggctgaagt ggtggaatgt gctgtgtcat tgggtgtgccg atgtcaaggg 240
 gcatgcagga gtattggaaa gccactttat gttctgttga gcc 283

09976034-101501

<210> 489
 <211> 447
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(447)
 <223> unsure at all n locations

<400> 489

aaaggaacca accactcttt tctttcaccg atcatata caatgtcgac ttacagagac 60
 gaggatcccc gtcttcatga catcaaaact aagattcgtg ttgtccctaa tttccccaaa 120
 cctggaattg aagctcgggg tttcattttt ggttctccca ttgctctggc aataggagca 180
 aagtttgtag cattgaggaa accaaaaaaaa attgcctggc aaagttatct ctcaagagta 240
 tattctggaa tatggnanag actgtcttga gatgcatgtt ggggccgttg aacctggtga 300
 gcgtgcttta gtggttgatg atttgattgc cactggtgga actctctgtg cagccatggg 360
 cttactnana gcnaattggg aanacanagg nnttggnnnt ncggntgtgt aattnaattg 420
 ccannanttt aaagggcgtn aannggg 447

<210> 490
 <211> 264
 <212> DNA
 <213> Glycine max

<400> 490

gttcgccgaa gagaatggcc tcaagggaga cccagactc caagccattt cccaagccat 60
 cagagtcgtc cctcacttcc ccaaactgg aataatgttc caagacataa cgacattgct 120
 gttggatcac aaggcgctta aagacaccgt cgacattttt gtcgatcggt acagagacat 180
 gcacatttcc gtagttgctg gaattgaggc aaggggggtc atgtttggtc cctcaattgc 240
 gttgggcatt ggtgcaaagt ttgt 264

<210> 491
 <211> 261
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(261)
 <223> unsure at all n locations

<400> 491
 ggagacccca gactccaanc catttcccaa gccatcagag tcgtccctca cttccccaaa 60
 catggaataa tggtccaaga cataacgaca ttggctgttg gatcacaagg cgtttaaaga 120
 caccgtcgac attnttgncg atcgntacag agacatgcac atttccgtag ttgctggaat 180
 tgaggcaagg gggtncatgt ttggtccttc aattgcnttg ggcattggtg caaagtttgt 240
 tcctttacgc aaaccacgga a 261

<210> 492
 <211> 292
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(292)
 <223> unsure at all n locations

<400> 492
 aacgctcaaa ccatacctttt ctttcgctct tcttccattc cactactaaa agtaacngtt 60
 tcggaggaggaa acacaatata acacaaaaag cccccccac aaagcaaata accttttttt 120
 tcctttcaaa atgttcgccc aagagaatgg cctcaaggga gacccagac tccaagccat 180
 ttcccaagcc atcagagtcg tccctcactt ccccaaact ggaataatgt tccaagacat 240
 aacgacattg ctgttggaac acaaggcggt taaagacacc gtcgacattt tt 292

<210> 493
 <211> 262
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(262)
 <223> unsure at all n locations

<400> 493
 aaccatcctt ttctttcgct cttcttccat tccacactac anagtanaatn anttcggagg 60
 gaaacacaat acaacacaaa aagccccccc cacaangcaa atcacctttt ttttcctttc 120
 aaaatgttcg ccgaagagaa tggcctcaag ggagacccca gactccaagc catttcccaa 180
 gccatcagag tcgtccctca cttccccaaa catggaataa tggtccaaga cataacgaca 240

ttgctgttgg atcacaaggc gt

262

<210> 494
<211> 306
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(306)
<223> unsure at all n locations

<400> 494

ctttcttttg ctcttcatcc attccacacc aaaaagtaac agtttcngtt tcggagggaa 60
aacacaanac aaaaagcccc ctcccccaa agcaaatac ctttttttct ttcagttatt 120
caaaaaatgt tcgccgaaga gaatggactc aaggagacc ctagactcca agccatttcc 180
caagccatca gagtcgtccc tcacttcccc atacatggaa taatgtttcc agacataacg 240
acattgttgt tggatcaciaa ggcgtttaaa gacactgtcg acatttttgt ngatcggtac 300
agagac 306

<210> 495
<211> 281
<212> DNA
<213> Glycine max

<400> 495

atccattcca caccaaaaag taactccttt cagtttcgga gggaaacaca acacaaaaag 60
ccccctcccc ccaaagcaaa tacacctttt tttctttcag ttattcaaaa aatgttcgcc 120
gaagagaatg gactcaaggg agaccctaga ctccaagcca tttccaagc catcagagtc 180
gtccctcact tccccatata tggaataatg tttcaagaca taacgacatt gttgttggat 240
cacaaggcgt ttaaagacat gtcgactttt tgtcgatcgt t 281

<210> 496
<211> 287
<212> DNA
<213> Glycine max

<400> 496

aaagctcaga cccaaacctt tcttttgcgc ttcattccatt ccacaccaa aagtaacagt 60
ttcagtttcg gagggaaaca caacacaaaa agccccctcc ccccaaagca aatcaccttt 120

ttttctttca gttattcaaa aaatgttcgc cgaaggaatg gactcaaggg agaccctaga 180
 ctccaagcca tttcccaagc catcagagtc gtccctcact tccccatata tggaataatg 240
 tttcaagaca taacgacatt gttgttgat cacaaggcgt ttaaaga 287

<210> 497
 <211> 269
 <212> DNA
 <213> Glycine max
 <400> 497

caaagctcag acccaaacct ttcttttgct cttcatccat tccacaccaa aaagtaacac 60
 cttcagtttc ggaggggaaac acaacacaaa aagccccctc ccccaaagc aaatcacctt 120
 tttttctttc agttattcaa aaaatgttcg ccgaagagaa tggactcaag ggagacccta 180
 gactccaagc catttcccaa gccatcagag tcgtccctca cttccccata catggaataa 240
 tgtttcaaga cataacgaca ttgttggtg 269

<210> 498
 <211> 262
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(262)
 <223> unsure at all n locations
 <400> 498

caacaagaca cgcgcttagc gagaatcgcc tctgcaatcc gagtcatccc cgactttcct 60
 aagccaggaa ttttgtttca ggacataacc acgctgcttc tnaacacaaa ggctttcaaa 120
 gacaccattg acttgtttgt ngagaggtac agagatcaaa acatcaatgt tgtcgcagga 180
 gttgaagcta gaggctttat atttggtcca ccattgcat tagctattgg agcaaaattt 240
 gtcccatga ggaaacccaa ta 262

<210> 499
 <211> 268
 <212> DNA
 <213> Glycine max
 <400> 499

gctttctaaa ttctccacc ctccgttcca ctgcttcgtc gcaacacgtt acaataatgg 60

cttogaagaa ttctcaacaa gacacgcgct tagcgagaat cgcctctgca atccgagtca 120
 tccccgactt tcctaagcca ggaatTTTTgt ttcaggacat aaccacgctg cttcttgata 180
 caaaggcttt caaagacacc attgacttgt ttgttgagag gtacagagat caaaacatca 240
 atgttgtcgc aggagttgaa gctagagg 268

<210> 500
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 500

gaagtgaaga gaatgcgggt tgTTTTgtgt tccaattcag gcgtgagtgc tttccctagt 60
 tgtcttagat tccctccact gatcgcaatt tcaacaacac cctcttcgat ccgcttttcta 120
 aattctccac cctccgctt cactgcttcg tcgcaacacg ttacaataat ggcttcgaag 180
 aattctcaac aagacacgcg cttagcgaga atcgctctg caatccgagt catccccgac 240
 tttcctaagc caggaatTTTt gtttcaggac ataaccacgc tgcttcttga taaaaggct 300
 ttcaaagaca ccattgactt gtttggtgag aggtacagag atcaaaacat caatgttgtc 360
 gca 363

<210> 501
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 501

cccagattcc ctccactcat tgcaatttct tcgatccgct ttctaaattc cacaccctc 60
 cgttccactg cttcgccgcg acaagttaca agaatggctt cgaagaatgc tcaacaagac 120
 acgcgcttag ccagaatcgc ctctgcgacg cgagtcattc ccgactttcc taagccagga 180
 attttgTTTTt aggacataac cacgctgctt cttgatacaa aggctttcaa agacaccgct 240
 gacttgTTTTt ttgagaggta cagagatcaa aacatcaatg ttgtcg 286

<210> 502
 <211> 222
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1) ... (222)

<223> unsure at all n locations
 <400> 502
 ttctaaattc tccacccctc cgttccactg cttcgtcgca anacgttaca ataatggctt 60
 cgaagaattc tcaacaagac acgcgcttag cgagaatcgc ctctgcaatc cgagtcattc 120
 ccgactttcc taagccagga attttggttc aggacataac cacgctgctt cttgatacaa 180
 aggctttcaa agacaccatt gacttggttg ttgagaggta ca 222

<210> 503
 <211> 285
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(285)
 <223> unsure at all n locations

<400> 503
 tgccactctt ccatctttcc cttgtcccag attcncctca ctcattgcaa tttcttcgat 60
 ccgctttcta aattccacac ccttcgcttc cactgcttcg ccgcgacaag ttacaagaat 120
 ggcttcgaag aatgctcaac aagacacgcg cttagccaga atcgctcttg cgatccgagt 180
 catccccgac tttcctaagc caggaatddd gtttcaggac ataaccacgc tgcttcttga 240
 taaaaaggct ttcaaagaca ccgttgactt gtttggtgan cttcc 285

<210> 504
 <211> 264
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(264)
 <223> unsure at all n locations

<400> 504
 tgccactctt ccatctttcc cttgtcccag attccctcca cttcattgca atttcttcga 60
 tccgctttct aaatnccaca ccntccggtt ccnctgcttc gncgcgacaa gtttacnaga 120
 atggcttcga agaatgctca acaagacacg cgcttancca gantcgcttc tgcgatccga 180
 gtcatccccg actttcctaa gccaggaatt ttgtttcagg acataaccac gctgcttctn 240
 gatacaaagg ctttcaaaga cacg 264

<210> 505
 <211> 263
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(263)
 <223> unsure at all n locations

<400> 505

caggcgtgag tgccactctt ccatctttcc cttgtcccag attcccncca ctcatngcna 60
 ttncttcgat ccgntttcta aatnccacac ccctccgttc cactgcttcg ccgcgacaag 120
 ttacaagaat ggcttcogaag aatgctcaac aagacacgcg cttagccaga atcgctcttg 180
 cgatccgagn catccccgac tttcctaage caggaatttt gtttcaggac ataaccncgc 240
 tgcttcttga tacaaaggct ttc 263

<210> 506
 <211> 437
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(437)
 <223> unsure at all n locations

<400> 506

aagacgacag aaggggggaaa tgaaaaaagt gacangaant gangagaatg cggggttgttt 60
 gttgttccaa ttcangcgtn agtgctttcc ctagttgtct tanattccct ccaactgatcg 120
 caatttcaac aacaccctct tcgatccgcn ttctaaattc tccanccctc cgttccactg 180
 cttcgtcgca acacgttaca ataatggctt cnangaattc tcaacaagga cacgcgctta 240
 acgagaatcg cctctgcaat ccgagtcac cccgactttc ctaagccagg aattttgttt 300
 cangacataa ccacgtgct tcttgataca aangctttca aangacacca ttgacttggt 360
 tgnttaanag gtacaagaga tnagtaacat caatgttgtc cccangagtt tgaanctaga 420
 ggcnttaaaa tttgggg 437

<210> 507
 <211> 271
 <212> DNA

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<213> Glycine max
 <400> 507
 gcggggttggt tgttggtcca attcaggcgt gagtgccttc cctagttgtc ttagattccc 60
 tccactgata gcaatttcaa caacaccctc ttcgatccgc tttctaaatt ctccaccctc 120
 ccgttccact gcttcgtcgc aacagttaca ataatggctt cgaagaattc tcaacaagac 180
 acgcgcttag cgagaatcgc ctctgcaatc cgagtcaccc ccgactttcc taagccagga 240
 attttggttc aggacataac cacgctgctt c 271

<210> 508
 <211> 228
 <212> DNA
 <213> Glycine max

<400> 508
 gccactcttc catctttccc ttgtcccaga ttccctccac tcattgcaat ttcttcgata 60
 cgctttctaa attccacacc cctccgttcc actgcttcgc cgcgacaagt tacaagaatg 120
 gcttcgagaa tgctcaacaa gacacgcgt tagccagaat cgctctgcg atccgagtca 180
 tccccgactt tcctaagcca ggaattttgt ttcaggacat aaccacgt 228

<210> 509
 <211> 335
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(335)
 <223> unsure at all n locations

<400> 509
 ttctctctgt actcaaactc acttccccac ttatttatac aatgtcggct taaaagacc 60
 aggatacccg tcttcatggc atcaaaacta agattcgtgt cgtccccaat tcccccaat 120
 ccggtattat gttccaagac attactactc tattgcttga tcccaaagca tttaaggaca 180
 caatagattt gttcgttgag cgggtacaagg gcaaaaacat ttctgttggt gcaggnattg 240
 aagctcgagg ttttattttt ggtcctccca ttgcgctggc tataggagca aagtttgtac 300
 catgaggana ccaaagaagt tgctggaaag ttatt 335

<210> 510

<211> 462
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(462)
<223> unsure at all n locations

<400> 510

aactcccagc gcacangtaa cggatcnga attcccggct cgaccacgc gtnaagtacg 60
gctgcnaaga cgacagaagg gganctctct tattgttggt ctcttcttct tttcttggtt 120
ccttttccat tcttcttttt ctctctgtac tcaaactcac ntccccactt anttatataaa 180
tgctcggetta naaanaccan gataccgctc ttcattggcat caanactaat attcgtgtcg 240
tccccaatth ccccaaattc ggtattatgt tccaagacat tactactcna ttgcttgatc 300
ccaaagcatt taaggacaca atagatttgt tcgttgancg gtanaagggc aaaaacattt 360
ctgttggtgc aggaattgaa gctcgaggtt ttatttttgg tcnncccatt gcgctgggct 420
ataggganca gagttttgta cnattgagga aaccaangaa gt 462

<210> 511
<211> 251
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(251)
<223> unsure at all n locations

<400> 511

cttttccatt cttcttttnc tctctgtact caaactcact tccccactta tttatacaat 60
gtcggcttac aaagaccagg ataccgctct tcatggcatc aaaactaaga ttcgtgtcgt 120
ccccaatthc cccaaatccg gtattatggt ccaagacatt actactctat tgcttgatcc 180
caaagcattt aaggacacaa tagatttggt cgttgagcgg tacaagggca aaaacatttc 240
tggttggtgca g 251

<210> 512
<211> 281
<212> DNA
<213> Glycine max

<220>

<221> unsure
 <222> (1)...(281)
 <223> unsure at all n locations

 <400> 512

 ctcttcttct tttcttgtnt ccttttccat tcttcttttt ctctctgtac tcaaactcac 60
 ttccccactt atttatacaa tgtcggtta caaagaccag gataccgctc ttcattggcat 120
 caaaactaag attcgtgtcg tcccaatttc cccaaatccg gtattatgtt ccaagacatt 180
 actactctat tgcttgatcc caaagcattt aaggacacaa tagatttgtt cgttgagcgg 240
 tacaagggca aaaacatttc tgttggtgca ggaattgaag c 281

<210> 513
 <211> 254
 <212> DNA
 <213> Glycine max

<400> 513

 cttttattgc ttcttttccc attcttcacg ttcttctctc tgaaccgtac tcaaactcca 60
 ctttcccact tatttatata atgtcggctt acaaagacca ggatccccgt cttcatggca 120
 tcaaaactaa gattcgtgtc gtccccaatt tccccaaatc cggctttatg ttcttagaca 180
 ttactactct attgcttgat cccaaagcat ttaaggactc aatagatttg ttcgtggagc 240
 ggtacaaggg caaa 254

<210> 514
 <211> 222
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(222)
 <223> unsure at all n locations

<400> 514

 ctcgancnnc ttccaagcng cttcttcttt tcttntttcc ttttncattc ttctttttct 60
 ctctgtacan aaactcactt ccacacttat taatanataa tnnngcttaca aagaccanga 120
 taccggtctt natggcatca aaactaatat tcgtgtcgtc cccaatttcc ccaaattccgg 180
 tattatgttc caagacatta ctactctatt gcttgatccc aa 222

<210> 515

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<211> 259
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(259)
 <223> unsure at all n locations

 <400> 515

 gttgttcttc tctttctttt ntngcttctt ttoccantct tcatcttctt ctcnctgaac 60
 cgtactcaaa ctcactttcc cacttattta tacaatgtcg gcttaciaag ancaggatcc 120
 ccgtcttcnt ggcntcaaaa ctaagattcg tgtcgtcccc aatttcccca aatccgggtct 180
 tatgttccta gacattacta ctctattgct tgatcccaa gcattnaaag gatncnatag 240
 atttggtcgt gggagcgggt 259

09976054-101501

<210> 516
 <211> 269
 <212> DNA
 <213> Glycine max

 <400> 516

 tgcattgtatc tatgaatgat ggaaccacca caaacgaggt tgatgatcaa cgttttcata 60
 gtgagtttct tagcactact tgtgaacttg gtgggtgggag tgctcggcgc tgataactat 120
 agcagagatg attttctctt tgactttggt ttcgggttcag gaacctctgc ttatcagggtg 180
 gaaggagctg ctaacaaaga tggaagaact cctagcatct gggacacctt tgcctacgct 240
 ggatatgccc atggagaaaa tggagatgt 269

<210> 517
 <211> 287
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(287)
 <223> unsure at all n locations

 <400> 517

 caaatctgat canaaggcta cagnaagagc aattgacttc atgtatggat gggttatgga 60
 tccattaaca tctggagant atcccaacag catgcgatca cttgtgagga caagnttanc 120
 naagtngnct ncngngcaat ccanactact tatngngttc attnnattnt cttggcctaa 180

anctattact cnacancata tgctctgac gnnctgntn naagcgaacc cgtcctagct 240
 actnaacagn ttctctggtc actccngcat atggaacgtg ntgggga 287

<210> 518
 <211> 261
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(261)
 <223> unsure at all n locations

<400> 518

canntctgnt cannaggcta caganagagc aattgacttc atgtatggnt ggttnatgga 60
 tccattaana tctggagact atnccnncag catgcganca cttgtgngga caagattacc 120
 anagtttnt gcagagcnat ccnaactacn tattgggttca ttngntntca ttagcctaaa 180
 ctattactct acaacatatg cctctgacgc acctgatcta agcgaagccg tcctagctac 240
 ttaacngatt ctcttgtcan t 261

<210> 519
 <211> 250
 <212> DNA
 <213> Glycine max

<400> 519

tggtcttatg tggttatgaa tgtgcttctt ttaggaaaag caaaagggaa ggattgggat 60
 cctcttggat tttgtttggt atgagcctct tacaagatca aaggctgaca attttgcagc 120
 tcaaagagcc agagactttc atattggatg gtaaaaatct tagcatttgt taactgagga 180
 tcctatattg caagtacaag tctttagtta tgaatgtgaa ttttccctg caaagacttt 240
 cacacgcttg 250

<210> 520
 <211> 239
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(239)
 <223> unsure at all n locations

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<400> 520
aaacatggag cttccactcc tagcacatca ngcactcttt gcactaagct tttgcatctc 60
aattttcttg gcacgtgtg atgatgattt tctatccgtg aaaaagaatt caagttcatc 120
tccatttcct agcaactttc ttttnggaac tgcactcttct tcatatcagt ttgaaggagc 180
ttacttgact gatggtaagg gactaaataa ctgggatggt ttcactcata agccaggca 239

<210> 521
<211> 251
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(251)
<223> unsure at all n locations

<400> 521
cttagagatg aagaatgtga tagacaagcc gtgaaaaggg cctnggcttt tggtgtagcc 60
tggtccttag atcccttggt ttttggtgag taccctccng agatgcactc tattctcggg 120
agtcagttgc caagattctc tcttgaggag aagagtctca taaaaggcag catagacttc 180
attggcatca ataactatgg aactctctat gccaaaggact gctccctcac tgcttgctct 240
cttgaacag a 251

<210> 522
<211> 246
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(246)
<223> unsure at all n locations

<400> 522
aaaagattat gagcattatg ccantacntg cttcaaagct tttggagaca gagttaagca 60
ctggattacc ttcaatgagc ctcataactt tgcactccat gggtatgntt taggcattca 120
agcacaggaa gatgttcctt tttgggtcat cttctntgta agaaaggana atcatccact 180
gagccataca ttgttgctcn taacattctc ttgtcacatg ctgctgccta tagaagctac 240
caacta 246

<210> 523
 <211> 255
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(255)
 <223> unsure at all n locations

 <400> 523

 anatagtgtgta aataaatact caattatata tgattcacta tagtattttt aaataatgaa 60
 aaagaaaata tagtaaagt ttatggcaaa ataaaaatag ggaggacttc cgtaactatg 120
 ctgacttttg cttcaagaca tttggtgatc ggggtgaagca ctgggtaacc ctaaataaac 180
 catatggcta cagcgtgaat gggctacagt ggtggaagtt tgcacccagg tagatgttct 240
 aactacgttg gaaaa 255

<210> 524
 <211> 272
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(272)
 <223> unsure at all n locations

 <400> 524

 gcaattcaac ngctgacaaa ttggctagcg aaagagcnag agcattcanc ttcaattggt 60
 tcttggaacc aatcatattc ggnaagtacc ctacagagat ggagaacggt cttggaagcc 120
 tcttgcccaa attttccagc tacgaaaaag agaaactcaa gagaggattg gatttcattg 180
 gcgtcaatta ctacacggct ttctatgtcc aagattgcat gtactccgct tgtaaaccag 240
 gacccgggat ctccagaaca gagggttcat ac 272

<210> 525
 <211> 286
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(286)
 <223> unsure at all n locations

 <400> 525

gcaaaaaatg aaaacccaaa gtgcttctct cctctgtctt tttctctctc ttgtatacct 60
 tttggntaat ngnaatggtn naantnnaat ncaannancn gaangncaan gccacaatgt 120
 ttcacnattc acnagaagcc tttcccttc nanttttctc tttggaattg gtncttctgn 180
 ttacaaggna gaaggagnag naantgtagn tgggagagga ccaagnatat gggacacaan 240
 cactagncag cntantgaaa agatttgggn tcatagcacc gngaac 286

<210> 526
 <211> 278
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(278)
 <223> unsure at all n locations

<400> 526
 ccttgatata ggaatggctc aaatgtaaag ggatattatg tatgggtctt gtctgacaat 60
 tttgaatggg cttccgggtt tacatcaaga tttggaatga tttatgtaga ttacaaaaat 120
 gatttgaaga gatacaagan attctctgca tatgggttga gaattttctg aagaaagaaa 180
 ccaaactata tggttctagc aaatagtatt atgaaatttg tttacaaaat agttatatat 240
 atttgtaaat aattatttga tttgtatttg gtcattct 278

<210> 527
 <211> 269
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(269)
 <223> unsure at all n locations

<400> 527
 ctcgagncag ctcanagagc tcannatccc tnagtctggg gctgggttac tctgacctt 60
 tgatgtttgg ggattatcca agctcaatga ggactagagt aggaagcagg ctaccgaaat 120
 tttcgcaatc agaagctgct cttgttaagg gttcattaga ttttgttgga atcaatcatt 180
 acaccacatt ttatgcaaaa gacaattcta ctaatttaat tggaaacctg gctccatgat 240
 tcattgcag actctggngc cgttacccc 269

09976054-101501

<210> 528
 <211> 280
 <212> DNA
 <213> Glycine max

 <400> 528

 caagtctcaa accatggcgt ttagaggagg cactatgttg atattaacaa tgatggcatt 60
 acttgagatt cagatatgct catcggagat aaaccgtgga aactttccaa atggcttcgt 120
 atttggcact gcctcttcag cttttcagta tgaaggggca gtgaaagaag acggaagggg 180
 accctctgtg tgggacactt tttcacatac ttttggcaaa ataattgatt tcagcaatgc 240
 tgatgttgcg gtggatcagt accaccgata cgaagaagat 280

<210> 529
 <211> 259
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(259)
 <223> unsure at all n locations

<400> 529

 cttaaaacca tttgtcacgc tgttacattg ggacctccca caagctcttg aagatgaata 60
 tanggggatt tctcaaacct gaaatagtgt aaataaatac tcaattatat atgattcact 120
 atagtatfff taaataatga aaaagaaaat atagtaaata tttatggaaa aataaaaaata 180
 gggaggactt ccgtaactat gctgactfff gcttcaagac atttggtgat cgggtgaagc 240
 actgggtaac cctaaatga 259

<210> 530
 <211> 259
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(259)
 <223> unsure at all n locations

<400> 530

 gggtttgcac ganaccacaa ggataaacta ttacaaaggc tatttgactc aactaaagaa 60
 agcagttgat gatggagcaa atgtgggttg ggaatttgca tggtcantgc ngggataaac 120

ttgaatggaa ggttgggggtt acacatcaaa ggtttggcat gtctatgttg atttcaaaac 180
 cctcaaggag atacccccaa gatgtcggca tactggttca agcaaactcc attaccaaaa 240
 aggagtatta atagcnggg 259

<210> 531
 <211> 256
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(256)
 <223> unsure at all n locations
 <400> 531

caaccacatg tcacactaca caactgtgat cttccgcagg cacttgagga tgaatatgga 60
 ggatgggtta gtcgtgatat cataaganac ttcacaaact atgcagatgt gtgttttaga 120
 gagtttggtg atagantcca gtactggact actgtnaatg ancccaatgc ctttgccttg 180
 ggtggctatg atcaaggaac ctcccctcct cagcgatgtt ctccccatt ttgcactaca 240
 aacagcacta ggggca 256

<210> 532
 <211> 272
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(272)
 <223> unsure at all n locations
 <400> 532

ggcattaagc agaatcataa tctttcatca catgcatcat atggcgcttc tacttgtcgc 60
 tctcttggtc cttgttacta cattaccatc ggttactgtt ggagaagtgc tttcacccat 120
 tctcgacgtt gcttcactga accgaaccag ttttcccaag ggctttangc nggggcagga 180
 tccgcatcgt atcagtacga aggtggggca aacgaagtgg caaaggacca agtatatggg 240
 atacctacca caaatatcca gataaaattg tg 272

<210> 533
 <211> 240
 <212> DNA

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<213> Glycine max

<220>

<221> unsure

<222> (1)...(240)

<223> unsure at all n locations

<400> 533

tnaataaccag actgagcagg ggggggaaat cggcattgtc ctacactgtg actcatttga 60

gccgttgagc aattccacag cagataaatt ggctactgaa agagcacaat cattcagcat 120

taattggatc ttggatccaa tcttatttgg taagtaccca aaagagatgg agatgattct 180

aggaaccacc ttacctaaat tttccagtaa tgacaaagca aaactgaggg caaggacgga 240

<210> 534

<211> 249

<212> DNA

<213> Glycine max

<400> 534

ggtgaatggg attcctacat gtgctgaccc agaccttctc aaagggataa tcagaggcca 60

gtgggggtcta gacggatata ttgtttcaga ttgtgattca gtggaagtct attacaatgc 120

aattcattac actgcaactc ctgaagatgc agtggctctt gactgaaag caggtttaaa 180

catgaactgt ggcgattttc ttaaaaaata cactgcaaat gctgtaaact tgaaaaaagt 240

agatgtagc 249

<210> 535

<211> 437

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)...(437)

<223> unsure at all n locations

<400> 535

tacggctgcg anaagacgac agaagggctt cccaaaaagt ccacaaaaat actggtagca 60

ggaagtcatg ctaacaattt gggttatcaa tgtggaggat ggacaattac ctggcagggg 120

cttggtggca atgatctcac ttcaggtaca accatccttg atgctgtgaa acaaaccgtt 180

gatcctgccca ctgaagttgt cttcaatgaa aatcctgata agaactttgt caagtcatac 240

aaatttgact atgccattgt tgttgtggga gaacacactt atgccgaaac atttggtgac 300

05976054-101501

agtttgaatc tgactatggc tgatcctggc ccaagtacca tcaccaatgt gtgtggggct 360
 attcnatgcc tagttgttcc tgtcactggc cgccantttg tgattaagcc atatctaacc 420
 aaaatcgatg cacttgg 437

<210> 536
 <211> 376
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(376)
 <223> unsure at all n locations
 <400> 536

agacgacaga anggagagat ggattgatga aaattcacat gccangctac ttcagctcga 60
 tcagcaaggg tgtggcaacc attatggcct cttactccan ttggaatgga gtaaaaatnc 120
 atgctcanca tgatcttatt actggcttcc tcaataatac tctccatttc aagggtttg 180
 tcanttcaga ttttgagggg cttgatagga tcacctctcc acctcgtgca aatatcactt 240
 attcaattta agcaggagtt tctgctggca ttgacatgtt catgggttnca aagcattnca 300
 canaattcat agatnttcta accatgttgg tgaaaaataa acacattccc atgagtcnaa 360
 ttgatgatnc antggg 376

<210> 537
 <211> 459
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(459)
 <223> unsure at all n locations
 <400> 537

cttnaggaga ggggcccnngg ttattgagcc ccgncanttg tgaaaatant ttnccatnat 60
 ncccaaattt gnttcaagac ntttggagat tgannttana attggatnac ctttaatnga 120
 cccngtgtng gnggnnngtn ntggcnnta ntannngttc tttngccctt gaaaaatnct 180
 caaaggattn tgggantngt ccagttggca actnaggcnc tgagcctacn ttgttgccca 240
 cantttgata ttgtcacatg cagctgctgt tcaaagatac cgagagaagt atcaagaaaa 300

gcaaaagggga aggattgggg atcctcttgg attttggttg gtatgagcct cttacaagat 360
 caaangecccg ncaatttanc acttaanaaa ncccanacct ttatgttnga ngggtcaatc 420
 attccccctg gttatgngag ggttccacca ncccnttta 459

<210> 538
 <211> 472
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(472)
 <223> unsure at all n locations
 <400> 538

cgacggccga cgcgtacgcc cacgcgtccg agaagtttct gttgatcant accatcgcta 60
 caaagaagat atngnncngg nggccagctn gaanggggat gcctaccggg tctcaatctc 120
 gtggtccaga atttttccaa atggaactgg ccaantaaan tggaaagggt tagcatacta 180
 caataggntg atcaattact tgctagaaaa aggtattact ccatatgcaa atctctacca 240
 ttatgatctt ctttancact tgaagagagg tacaacggat tattganccg gcaagntgtg 300
 aatgatttng caanattatg cagaatttng ntttnaagan ttntngaaga tagaattaaa 360
 aantngantg acgttnaaaa gaancctnaa gnagnagnt tgnatggcn aagaaaaang 420
 ggattntatn nccccggaa aaannnttaa aaagaatntn ggnaatagnc aa 472

<210> 539
 <211> 443
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(443)
 <223> unsure at all n locations
 <400> 539

ggctttacaa cgtaccatgg ggcatgtaca aatcattgat gtacataaag gaacgttatg 60
 gaaacccaac tgtgntcnta tccgaaaatg gtaacattat atatcaattt cttgcttttt 120
 cttttttttg gcttggtgat tctgttgttt caatgtcatg tgacatattt tatgacatgt 180
 aggcatggat gatccgggta acgtgactct tccaagggt ttgcatgaca ccacaaggat 240
 aaactattac aaaggctatt tgactcaact aaagaaggca gttgatgatg gagctaattg 300

ggttggatac tttgcatggt cattgctgga taactttgaa tggagggttg gttacacatc 360
aaggnttggc attgnctatg ttgatttcaa aaccctcaag agatacccta agatgtcagc 420
atactgggtc aagcaactca ttg 443

<210> 540
<211> 253
<212> DNA
<213> Glycine max
<400> 540

gctaattgtg ttggatactt tgcattggtca ttgctggata actttgaatg gaggttgggt 60
tacacatcaa ggtttggcat tgtctatggt gatttcaaaa ccctcaagag ataccctaag 120
atgtcagcat actggttcaa gcaactcatt gccaaaaaga agtactaata gctgggctga 180
acatctactt tctaagcttc tagttgcttc agataatcat gttttagtgg ttttggttga 240
gttaaaagta gtt 253

<210> 541
<211> 249
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(249)
<223> unsure at all n locations
<400> 541

ctaattnggt tggatacttt gcntgggtca ttgctggata actttgaatg gaggttgggt 60
nacacatcan ggtttggcat tgtctatgtn gattncaaaa ccctcangan atancctaag 120
atgncagcat actggntcan gcaactcatt gccannnagn agtactaata gctgggctga 180
acatctactt tctaagcttc tagttgcatc agataatcat gttttagtgg ttttggttga 240
gttaaaagc 249

<210> 542
<211> 248
<212> DNA
<213> Glycine max
<400> 542

ttttttttgc cataaaagat cattttattc taagacttgc attaatacaag tcacatgatt 60

acagttacag aactactttt aactcaacca aaaccactaa aacatgatta tctgaagcaa 120
ctagaagctt agaaagtaga tgttcagccc agctattagt acttcttttt ggcaatgagt 180
tgcttgaacc agtatgctga catcttaggg tatctcttga gggttttgaa atcaacatag 240
acaatgcc 248

<210> 543
<211> 249
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(249)
<223> unsure at all n locations
<400> 543

ggagttcttg agagaaaacg gcgacaacga nagccgttcc gtctcgcgga gtgacttccc 60
tcccaacttc atcttcggag ttgccacttc tgcataatcag atagaagggtg cttgtaagga 120
gggtggtaga ggtcctagca tatgggatgc ctttacacac acggnaggaa aaattcttga 180
caaaagcaat ggtgatgttg cagttaatca ttatcatcgg tacatggnag atattgatct 240
natagccna 249

<210> 544
<211> 252
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(252)
<223> unsure at all n locations
<400> 544

ggagttcttg agagaaaacg gcgacaacga aaaccgttcc gtctcgcgga gtgacttccc 60
tcccaacttc atcttcggag ttgccacttc tgcataatcag atagaagggtg cttgtaagga 120
gggtggtaga ggtcctagca tatgggatgc ctttacacac acggaaggaa aaattcttga 180
caaaagcaat ggtgatgttg cagttaatca ttatcatcgg tacatggnag atattgatct 240
atagccaagt tg 252

<210> 545

<211> 276
<212> DNA
<213> Glycine max

<400> 545

cggcgattga gagggagagt ttgagaatgg tgaagaagga ggagttcttg agagaaaacg 60
gcgacaacga aaaccgttcc gtctcgcgga gtgacttccc tcccaacttc atcttcggag 120
ttgccacttc tgcataatcag atagaagggtg cttgtaagga ggggtggtaga ggtcctagca 180
tatgggatgc ctttacacac acggaaggaa aaattcttga caaaagcaat ggtgatgttg 240
cagttaatca tatcatcggt acatggaaga tattga 276

<210> 546
<211> 240
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(240)
<223> unsure at all n locations

<400> 546

agcngtgnaa aangctgcag aggcagcaca cgagctgtat tgatactacn ttgctgtacn 60
tcaatttcat gtccaaagtt gtgatgaaat tgaagatgta atcagcagat ctcaatttcc 120
agaaggggttc cttttcggaa caggcacttc ctcttaccag attgaaggag cgtattttga 180
agatggaaag ggtttaagca attgggatgc ttttagtcat acaccaggan agataaaaaa 240

<210> 547
<211> 263
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(263)
<223> unsure at all n locations

<400> 547

ttttttgggtt gcatcatgtc tgccatcact aatcattgga acaaaatgaa aatgctgcag 60
aggcagctaa ganctgtatt gatactgttt tgctgtnttc aatttcatgt ccaaagttgt 120
gatgaaattg aagatgtaat cagcagatct caatttccag aagggttcct tttcggaaca 180
ggcacttcct cttaccagat tgaaggagcg tattttgaag atggaaaggg tttaagcnat 240

tgggagcttt tagtcataca cca

263

<210> 548
<211> 477
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(477)
<223> unsure at all n locations

<400> 548

ggaaggattg ggatcctctt ggattttgtt tggtatgagc ctcttacaag atcaaaggcc 60
gacaatttag cagctcaaag agccagagac tttcatgttg gatggttcat tcatcccctt 120
gtttatggag agtntccaac aaccattcaa aatattgttg ggaatagact ccccaaattc 180
actagtgaag aagttaaaat cgtgaaaggg ttcaatagat tttgttgga tnanccantt 240
tcntacgnct cnngtttgac cntttaaggc aaaacttaaa ncccangttt ttaangggct 300
tggaatcccg aattggtnnt ccaanaacgg ggtgnccatt tgnnccaagg ntttttttta 360
ttgggtttta acgnnccctg ggggggtgtt caaaaaattg gtgggcntaa aaggggaccct 420
tttgggaaac cccccgngng gttnttccca aaaggggnng ggtnanaccc ggnaanc 477

<210> 549
<211> 402
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(402)
<223> unsure at all n locations

<400> 549

ggatgacgtt taacgaacct cgtgtggtgg ctgctcttgg ctatgataat ggtttctttg 60
cccctggaag atgctcaaaa gaatatggga attgtactgc tggcaactca ggcaactgagc 120
cttacattgt tgcccacaat ttgatattgt cgcattgcagc anctgttcaa agataccgag 180
cgaagtacca agaaaagcaa aagggaagga ttgggaccc tttggatttt gtttggtatg 240
agcctcttac aagatcaaag gctgacaatt ttgcagctca aagagccaga gactttcata 300
ttggatggtt cattcatccc cttgtttatg gagagtatcc aaaaaccatt caaaatattg 360

05976054-101501

ttgggaatan actccccaaa ntcactantt aagaanttta aa 402

<210> 550
<211> 473
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(473)
<223> unsure at all n locations

<400> 550

gtttaatgaa cctcgtgtgg tggctgctct tggctatgat aatggtttct ttgccccngg 60
aagatgctca aaagaatatg ggaattgtac agctggcaac tcaggcactg agccttacat 120
tggtgcccac aatttgatat tgtcacatgc agctgctggt caaagatacc gagagaagta 180
tcaagaaaag caaaagggaa ggattgggat cctcttgat tttgtttggg atgagcctct 240
tacaagatca aaggccgaca atttagcagc tcaaagagcc agagactttc atgttggtatg 300
gttcattcat ccccttggtt atggagagta tccaacaacc attcaaaata ttggtgggaa 360
tagactcccc aaattcacta gtgaaagaaa gttaaaatcc gtgaaagggg tcaatagaat 420
tttggtngga atcaanccat nttcttcgtc tacatgnatt aaacctatta aac 473

<210> 551
<211> 276
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(276)
<223> unsure at all n locations

<400> 551

ctcaggcact gagccttaca ttggtgcca caatttgata ttntcgcatg cagcagctgt 60
tcaaagatac cgagcgaagt accaagaaaa gcaaaaggga aggattggga tcctcttgga 120
ttttgtttgg tatgagcctc ttacaagatc aaaggctgac aattttgcag ctcaaagagc 180
cagagacttt catattggat ggttcattca tccccttggt tatggagagt atccaaaaac 240
cattcaaaat attgttgga atagactccc caaatt 276

<210> 552
<211> 251

<212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(251)
 <223> unsure at all n locations
 <400> 552
 gtttaacgaa cctcgtgtgg tggctgctct tggctatgat aatggtttct ttgccccctgg 60
 aagatgctca aaagantatg ggaattgtac tgctggcaac tcaggcactg agccttacat 120
 tgttgcccac aatttgatat tgctgcatgc agcagctggt caaagatacc gagcgaagta 180
 ccaaganaag caaaagggaa ggattgggat cctctgtaaa tttgtttggt atgagcctct 240
 tacaagatca a 251

<210> 553
 <211> 261
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(261)
 <223> unsure at all n locations
 <400> 553
 acggattatt gngtcgccaa gttgtgaaag attttgcaga ttatgcagaa ttttgtttca 60
 agacttttgg agatagagtt aagaattgga tgacgtttaa cgaacctcgt gtggtggctg 120
 ctcttggtta tgataatggt ttctttgccc ctggaagatg ctcaaaagaa tatgggaatt 180
 gtactgctgg caactcaggc actgagcctt acattgttgc ccacaattga tattgtcgca 240
 tgcagcagct gttcaaagat a 261

<210> 554
 <211> 259
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(259)
 <223> unsure at all n locations
 <400> 554
 cgaaaagcaa aaggggaagga ttgggatacct cttggatttt ntttggatatg agcctcttac 60

aagatcaaag gctgacaatt ttgcagctcc aaagagccca gagactttca tattggatgg 120
 ttcattcatc cccttggtta tggagagtat ccaaaaacca ttcaaaatat tgttggaat 180
 agactcccca aattcactag tgaagaagtt aaaatcgtga agggttcgat tgattttgtt 240
 ggaatcaacc agtatacta 259

<210> 555
 <211> 232
 <212> DNA
 <213> Glycine max
 <400> 555

gagagaagta tcaagaaaag caaaagggaa ggattgggat cctcttggat tttgtttggt 60
 atgagcctct tacaagatca aaggccgaca atttagcagc tcaaagagcc agagactttc 120
 atgttggtatg gttcattcat ccccttggtt atggagagta tccaacaacc attcaaaata 180
 ttgttgggaa tagactcccc aaattcacta gtgaagaagt taaaatcgtg ag 232

<210> 556
 <211> 265
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(265)
 <223> unsure at all n locations
 <400> 556

tttaacgaac ctctgtgtgt ggctgctctt ggctatgata atggtttctt tgcccctgga 60
 agatgctcaa angaatatgg gaattgtact gctggcaact caggcactga gccttacatt 120
 gttgcccaca atttgatatt gtccatgcag cagctgttca aagataccga gcgaagtacc 180
 aagaaaagca aaaggggaagg attgggatcc tcttggtatt gtttggtatg agcctcttac 240
 aagatcaaag gctgacaatt tgcag 265

<210> 557
 <211> 256
 <212> DNA
 <213> Glycine max
 <400> 557

tagagttaag aattggatga cgtttaacga acctcgtgtg gtggctgctc ttggctatga 60

taatggtttc tttgcccctg gaagatgctc aaaagaatat ggggaattgta ctgctggcaa 120
 ctcaggcact gagccttaca ttgttgccca caatttgata ttgtcgcatg cagcagctgt 180
 tcaaagatac cgagcgaagt accaagaaaa gcaaaaggga aggattggga tcctcttgga 240
 ttttgtttgg tatgag 256

<210> 558
 <211> 443
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(443)
 <223> unsure at all n locations
 <400> 558

aagacgacag aaggggggact ggaatgcagg atttgcttat gcaaagaatg gagtgcctat 60
 tggtcctaga gctaattctt attggcttta caatgtacca tggggcatgt acaaatcatt 120
 gatatacata aaggaacgtt atggaaaccc aactgttatc ttatctgaaa atggcatgga 180
 tgatccgggt aatgtgactc ttcccaagggt tttgcatgac accacaagga taaactatta 240
 caaaggctat ttgactcaac taaagaaagc agttgatgat ggagcanatg tggttgggta 300
 ctttgcattg tcattgctgg ataactttga atggaggttg gggtacacat caaggtttgg 360
 cattgtctat gttgatttca aaaccctca aganataccc naaagatntn tgggaannng 420
 gggtncancc aatgncntta cca 443

<210> 559
 <211> 397
 <212> DNA
 <213> Glycine max
 <400> 559

aagacgacag aaggggtatga tcctcatcaa tcaaaaccta aagtcccagg ctatcaaattg 60
 gactggaatg caggatttgc ttatgcaaag aatggagtgc ctattggtcc tagagctaatt 120
 tcttattggc ttacaaatgt accatggggc atgtacaaat cattgatata cataaaggaa 180
 cgttatggaa acccaactgt tatcttatct gaaaatggca tggatgatcc gggtaattgtg 240
 actcttccca agggtttgca tgacaccaca aggataaact attacaaagg ctatttgact 300
 caactaaaga aagcagttga tgatggagca aatgtgggttg ggtactttgc atggtcattg 360

0976054-101501

ctggataact ttgaatggaa gtttgggtta cacatca 397

<210> 560
<211> 505
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(505)
<223> unsure at all n locations

<400> 560

ccgaatttcc ggencgaccc acgcgtccgc ccacgcgtgc gcgctttctt taaccattan 60
gcgtttaaaa tantttctat acngtnnggt aacggggntc tttnggntcg gnttatntga 120
acattgaana tncaaagaac ggagtgccta ttggtccaan ggcttattct tattggntnt 180
acaacgtacc atggggcatg tncaaancat tgatgtacat aaaggaacgt tatggaaacc 240
caactgagat cttatccgaa aatggcatgg atgatccggg taacnggact cttaccaagg 300
gttttgcaat gacaccacaa ggatnaacta ttacaaaagc tattntgact caactaacga 360
aggcaattna nnattgagct aatgttngtt ggatactttg catcggtcan tgcttggata 420
aacttttgaa tngaannntg ggttaccnnt naanggtttg gcattaggct atgtttgatt 480
tcaaaacctt natnanaacc cctaa 505

<210> 561
<211> 247
<212> DNA
<213> Glycine max

<400> 561

ggctatcaaa tggactggaa tgcaggattt gcttatgcaa agaatggagt gcctattggt 60
cctagagcta attcttattg gctttacaat gtaccatggg gcatgtacaa atcattgata 120
tacataaagg aacgttatgg aaaccaact gttattttat ctgaaaatgg catggatgat 180
ccgggtaatg tgactcttcc caagggtttg catgacacca caaggataaa ctattacaaa 240
ggctatt 247

<210> 562
<211> 250
<212> DNA
<213> Glycine max

09976054-101501

<400> 562
 aggctatcaa atggactgga atgcaggatt tgcttatgca aagaatggag tgcctattgg 60
 tccatagagct aattcttatt ggctttacaa tgtaccatgg ggcattgtaca aatcattgat 120
 atacataaag gaacggttatg gaaacccaac tgttatttta tctgaaaatg gcatggatga 180
 tccgggtaat gtgactcttc ccaagggttt gcatgacacc acaaggataa actattacaa 240
 aggctatttg 250

<210> 563
 <211> 451
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(451)
 <223> unsure at all n locations

<400> 563
 cgcttttcttt aaccattatt gattaaaata ttttctatac atttccataa ctntctcttt 60
 tggttttggtt tatatgaaca ttgaagatgc aaagaacgga gtgcctattg gtccaagggc 120
 ttattcttat tggctttaca acgtaccatg gggcatgtac aaatcattga tgtacataaa 180
 ggaacggttat ggaaacccaa ctgtgttctt atccgaaaat ggcattggatg atccgggtaa 240
 cgtgactctt nccaagggtt tgcattgacac cacaaggata aactattaca aaggctatgt 300
 gactcaacta aagaaggcag ttgatgatgg agctaattgtg gttggatact ttgcattggca 360
 ttgntggata actttgaatg ganggtgggt tacacatnaa aggnntggca ttggctatgg 420
 tgattcnaaa accctaagag aatnccttag a 451

<210> 564
 <211> 394
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(394)
 <223> unsure at all n locations

<400> 564
 ttatatgaac nttgaagatg caaacaacgg aaagcctatt ggtccaaang cttattctta 60

ttngcnttac aacgtacat ngggcatgtc aaatcattga tgcacataaa ngaacnntat 120
ggaaacccaa ctgcgttctt atccccaaat ggcattggatn atcccgnntaa ccntnactnt 180
tcccaanggt ttgcatnaca ccacaaggat naactatttan naaagctatt tgactcaact 240
aaanaaagca nttgatgatn gancntaatg nngttngaaa cctttncatg gncanttgnc 300
tgganaactt taaanngagn ttgggttccc catcaagntt tggcaattnn ccatttntta 360
atttnaaaan cccttnanaa naaancctt aaaa 394

<210> 565
<211> 232
<212> DNA
<213> Glycine max

<400> 565

aatcaaccaa tatactacgt actacatgta tgatcctcat caagcaaac cttaaagtccc 60
aggctatcaa atggactgga atgcaggatt tgcttatgca aagaacggag tgcctattgg 120
tccaagggtt tattcttatt ggctttacaa cgtaccatgg ggcattgtaca aatcattgat 180
gtacataaag gaacgttatg gaaacccaac tgtgttctta tccgaaaatg gc 232

<210> 566
<211> 267
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(267)
<223> unsure at all n locations

<400> 566

aaccattcaa aatattgttg ggantagact ccccaaattc actagtgaag nagttaaaat 60
cgtgaagggt tcgattgatt ttgttggaat caaccagtat actacgttct tcattttatga 120
tcctcatcaa tcaaaacctt aagtcccagg ctatcaaattg gactggaatg caggatttgc 180
ttatgcanag aatggagtgc ctattggtcc tagagctaatt tcttattggc tttacaattg 240
accatggggc atgtacaaat cattgat 267

<210> 567
<211> 257
<212> DNA
<213> Glycine max

09976054.101501

<220>
 <221> unsure
 <222> (1)...(257)
 <223> unsure at all n locations

<400> 567

gggaatagac tccccaaatt cactagtga gaagttaaaa tcgtgaaggg ttcgattgat 60
 tttgttggaa tcaaccagta tactacgttc tntcatttat gatcctcatc aatcaaaacc 120
 taaagtccca ggctatcaaa tggactggaa tgcaggattt gcttatgcaa agaatggagt 180
 gcctantggc cctagagcta attcttattg gctttacaat gtaccatggg gcatgtacaa 240
 atcattgnta tncataa 257

<210> 568
 <211> 281
 <212> DNA
 <213> Glycine max

<400> 568

gaagaagtta aaatcgtga gggttcaata gattttgttg gaatcaacca atatactacg 60
 tactacatgt atgatcctca tcaagcaaaa cctaaagtcc caggctatca aatggactgg 120
 aatgcaggat ttgcttatgc aaagaacgga gtgcctattg gtccaagggc ttattcttat 180
 tggctttaca acgtaccatg gggcatgtac aaatcattga tgtacataaa ggaacgttat 240
 ggaaacccaa ctgtgttctt atccgaaaat ggcattggatg a 281

<210> 569
 <211> 145
 <212> DNA
 <213> Glycine max

<400> 569

caaagaacgg agtgcctatt ggtccaaggg cttattctta ttggctttac aacgtaccat 60
 ggggcatgta caaatcattg atgtacataa aggaacgtta tggaaaccca actgtgttct 120
 tatccgaaaa tggcatggat gatcc 145

<210> 570
 <211> 402
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure

<222> (1)...(402)
<223> unsure at all n locations

<400> 570

aagacgacag aagggcagtg tacattaccg aaaatggcgt tgcggaatca aagaatgact 60
cacttgcaat caatgaagcc cgaaaggatg gtattcgaat tagataccat gatggccatc 120
tcaaatccct gcttcatgcy atcaaagata gagttaatgt gaagggctac tatatatggg 180
cattttcang atagctttga atgggatgct gggtacacag ctcgattttg catcatatat 240
gtggannaca agaacaattt gagtagatac cctaagtcct ctgcgttttg gctgaaaaca 300
atgctgttac tgcgtttgcc aaatcaacat gatctcntat agggtaaann antnngtncn 360
ncannggncn nngnaannag cgggggggctc tanaaggatt ca 402

<210> 571
<211> 268
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(268)
<223> unsure at all n locations

<400> 571

gtcaccatag tgactttctt ctttgaacca aaatctaata gtgatgctga tcncaaggca 60
gcaaggcgag ctctggactt tatgtttggc tggtttgcta atcccattac atttggtgac 120
tatactgaga gtatgagatc tttagttggg tctagactcc ccacattcac caaagctcaa 180
tctgaaagtc tcaaaggttc atatgatttt cttgggtataa attcattaca cctcaaattt 240
cgtggaatat gctccaccaa ccaccatt 268

<210> 572
<211> 258
<212> DNA
<213> Glycine max

<400> 572

gttgggtataa attattacac ctcaaatttc gtggaatatg ctccaccaac caccactaac 60
aagacctatt ttcattggata tgctagccaa actttcttcg accaggaatg gtgtacccat 120
tggtcacaccg actcctctga gctggctctt tatctatccg gaggggaattt ataagctcat 180
gacatacata agggacaact acaataatcc accagtgtac attaccgaaa atggcggttg 240

ggaatcaaag aatgactc 258

<210> 573
<211> 185
<212> DNA
<213> Glycine max

<400> 573

caccagtgt cattaccgaa aatggcggtg cggaatcaaa gaatgactca cttgcaatca 60

atgaagcccc aaaggatgggt attcgaatta gataccatga tgggccatct caaatccctg 120

cttcatgcga tcaaagatag agttaatgtg aagggtact atatatgggtc attttcagat 180

agctt 185

<210> 574
<211> 163
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(163)
<223> unsure at all n locations

<400> 574

ctaagggaca actacaataa tccaccagtg tacattaccg aaaatggcgt tgcggaatca 60

aagaatgact cacttgcaat caatgaagcc cgaaaggatg gtattcgaat tagataccat 120

gatggccatc tcaaatccct gcttcatgga tcanagatag agt 163

<210> 575
<211> 329
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(329)
<223> unsure at all n locations

<400> 575

agcaatgaaa gcaataagtc cctccttcct ctgccttata attcttgtga cccttttngc 60

tggttagcatt gaaagtgcac cagcaaacgt gaagccaagc cattatgctg cacccttcaa 120

taggagtgtt tttcttctgg ttttctatct ggaataggct ctgcagctta ccagatagaa 180

ggagcagcag ctatagatgg cagaggacca agtatatggg acacctatac taaacagcaa 240
ccagggaaga tttgggatca tagtgatgga agtctagcaa ttgattttta tcaccggtac 300
aagagcgaca taaagatggg gaaagaagt 329

<210> 576
<211> 290
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(290)
<223> unsure at all n locations
<400> 576

gncaataagt cctccttcc nctgccttat aattnttggt acccttttgg ctggtagcat 60
tgaaagtgca ccagcaaacg tgaagccaag ccattatgct gcacccttca ataggagtgt 120
tttcccttct ggttttctat ttggaatagg ctctgcagct taccagatag aaggagcagc 180
agctatagat ggcagaggac caagtatatg ggacacctat actaaacagc aaccagggaa 240
gatttgggat catagtgatg gaagtctagc aattgatttt tatcaccggt 290

<210> 577
<211> 283
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(283)
<223> unsure at all n locations
<400> 577

gtccctcctt cctctgcctt ataattcttg tgaccctttt ngctggtagc attgaaagtg 60
caccagcaaa cgtgaagcca agccattatg ctgcaccctt caataggagt gtttttcctt 120
ctggttttct atttgaata ggctctgcag cttaccagat agaaggagca gcagctatag 180
atggcagang accaagtata tgggacacct atactaaaca gcaaccaggg aagatttggg 240
atcatagtga tggaagtcta gcaattgatt nttatcaccg gta 283

<210> 578
<211> 284
<212> DNA
<213> Glycine max

00976054.101501

<220>
 <221> unsure
 <222> (1)...(284)
 <223> unsure at all n locations

<400> 578

gcaatgaaag caataagtcc ctcccttcctc tgccttataa ttcttgtagc ccttttngct 60
 ggtagcattg aaagtgcacc agcaaacgtg aagccaagcc attatgctgc acccttcaat 120
 aggagtgttt ttcccttctgg ttttctatatt ggaataggct ctgcagctta ccagatagaa 180
 ggagcagcag ctatagatgg cagaggacca agtatatggg acacctatac taaacagcaa 240
 ccagggaaga ttgggatcat agtgatggaa gtctagcatt gttt 284

<210> 579
 <211> 264
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(264)
 <223> unsure at all n locations

<400> 579

gtccctcctt cctctgcctt ataattcttg tgaccctttt ggctggtagc attgaaagtg 60
 caccagcaaa cgtgaagcca agccattatg ctgcaccctt caataggagt gtttttcctt 120
 ctgggttttct atttgaata ggctctgcag cttaccagat agaaggagca gcagctatag 180
 atggcagagg accaagtata tgggacacct atactnnnnc agcaaccagg gaagnttttg 240
 gatcatagat ggaagtctag caat 264

<210> 580
 <211> 226
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(226)
 <223> unsure at all n locations

<400> 580

gtccctcctt cctctgcctt ataattcttg tgaccctttt ngctggtagc attgaaagtg 60
 caccagcaaa cgtgaagcca agccattatg ctgcaccctt caataggagt gtttttcctt 120

ctgggttttct atttgggaata ggctctgcag cttaccagat agaaggagca gcagctatag 180
atggcagagg accaagtata tgggacacct atactaaaca gcaacc 226

<210> 581
<211> 258
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(258)
<223> unsure at all n locations

<400> 581

gcaatgaaag caataagtcc ctccttcctc tgccttataa ttcttgtgac ccttttngct 60
ggtagcattg aaagtgcacc agcaaactg aagccaagcc attatgctgc acccttcaat 120
aggagtgttt ttccttctgg ttttctatct ggaataggct ctgcagctta ccagatagaa 180
ggagcagcag ctatagatgg cagaggacca ngtnatggg acacctatac taaaacagca 240
accagggaag atttggga 258

<210> 582
<211> 255
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(255)
<223> unsure at all n locations

<400> 582

ataagtcctt ccttcctctg ccttataatt cttgtgacct ttttngctgg tagcattgaa 60
agtgcaccag caaacgtgaa gccaaagccat tatgctgcac ccttcaatag gagtgttttt 120
ccttctgggtt ttctatttgg aataggctct gcagcttacc agatagaagg agcagcagct 180
atagatggca gaggaccaag tatatgggac actataactaa acagcaacca gggaagattt 240
gggatcatag tgatg 255

<210> 583
<211> 266
<212> DNA
<213> Glycine max

<220>
 <221> unsure
 <222> (1)...(266)
 <223> unsure at all n locations

 <400> 583

 atgaaagcna taagtccctc cttcctctgc cttataattc ttgtgaccct tttngctggt 60
 agcattgaaa gtgcaccagc aaacgtgaag ccaagccatt atgctgcacc cttcaatagg 120
 agtggtttttc cttctgtttt ctatttgga taggctctgc agcttaccag atagaaggag 180
 cngcagctat agatggcaga ggaccaagta tatgggacac ctatactaaa cagcaaccag 240
 ggaagatttg ggatcatagt gatgga 266

<210> 584
 <211> 275
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(275)
 <223> unsure at all n locations

 <400> 584

 taagtctntc cttcctctgc cttatanttc ttgtgancct tttngtaggt agcattgaaa 60
 gtgcaccagc aaacgtgaag ccaagccatt atgctgcacc cttcaatagg agtggtttttc 120
 cttctgggtt tctatntggn ntaggctctg cagcttacca gatagaaggn gcagcagcta 180
 tagatggcag angaccaagt atntgggaca ccgatactna acagnaacag ggncnattgg 240
 gatcatngtg atggagncna gncaattgat tntnt 275

<210> 585
 <211> 223
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(223)
 <223> unsure at all n locations

<400> 585

 gtccctcctt cctctgcctt ataattcttg tannccctant ngctggtagc attgaaagtg 60
 caccangcaa acgtgaagcc aagccattat gctgcaccct tcaataggag tggtttttcct 120

09950544504650

tctggttttc tatttggaat aggctctgca gcttaccaga tagaagaggc agcagctata 180
gatggcagag gnccaagtat atgggacacc ttatactaaa cag 223

<210> 586
<211> 239
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(239)
<223> unsure at all n locations

<400> 586

gcaatgaaag caataagtcc ctccttcctc tgccttataa ttcttgtgac ccttttngct 60
ggtagcattg aaagtgcacc agcaaactg aagccaagcc attatgctgc acccttcaat 120
aggagtgttt ttcctctggt tttctatttg gaataggctc tgcagcttac cagatagaag 180
gagcagcagc tatagatggc agagggacca agtatatggg acacctatac taaacagca 239

<210> 587
<211> 279
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(279)
<223> unsure at all n locations

<400> 587

atcctaataaa catgcgagcn ctggtgggaa gtagattgcc taagttcacc aaatggcaag 60
ccaagctagt gaatgcatca tttgatttta ttggcttaaa ctattactcc tctgggtata 120
ttaatggtgt cctccaagc aacgacaaac ccaattttct aacagattct cgcaccaaca 180
cttcatttga acgcaatgga agacccttag gtctaagggc cgcttcagtt tggatatact 240
tttatccaag gggacttcta gatcttctgt tatatacca 279

<210> 588
<211> 258
<212> DNA
<213> Glycine max

<400> 588

ctaaaaacat gcgagccctg gtgggaagta gattgcctaa gttcaccaaa tggcaagcca 60

agctagtga tggatcattt gattttattg gcttaaacta ttactcctct gggttatatta 120
atgggtgtccc tccaagcaac gacaaaacca attttctaac agattctcgc accaactt 180
catttgaacg caatggaaga cccctaggtc taagggccgc ttcagtttgg atatactttt 240
atccaagggg acttctag 258

<210> 589
<211> 278
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(278)
<223> unsure at all n locations
<400> 589

gnntgggaac cattaacaaa aggagagtat cctaaaaaca tgcgagccct ggtgggaagt 60
agattgccta agttcaccaa atgggcaagc cnagctagtg aatggatcat ttgattttat 120
tggtttaaac tattactcct ctgggttatat taatgggtgtc cctccaagca acgacaaacc 180
caattttcta acagattctc gcaccaacac ttcatttgaa cgcnatggaa gaccctagg 240
tctaagggcc gcttcagttt ggatatactt ttatccaa 278

<210> 590
<211> 266
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(266)
<223> unsure at all n locations
<400> 590

ataatatggc atttaaaggc tatttcgttt tggggcctca tagctcttgt tgtcgttggc 60
acttccaaag ttacatgcga aatagaagca gataaagttt cacctattat tgacttttcc 120
ctcaatcgga acagtttccc tgaaggcttc atctttgggg cggcacatn cctcctacca 180
gttcgaaggt gcagcanagg aaggtggtag aggaccaagt gtatgggata cttcacccat 240
aatntccag ataagatcaa ggatgg 266

<210> 591

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<211> 281
<212> DNA
<213> Glycine max

<400> 591

gaccccttgaa tagatcacat aacatgggca tcattgggca tgcaacacgt ttattgtag 60
cagcacgtta agatcagttg ttactcgtgc ggaaccacct aaacctgggc ctcttttcga 120
tcttagttca ttcaatcgcc acagctttcc ggcaggcttc actttcgggg catcatcttc 180
cgcgtagcag tttgaagggtg cggcaaaaga atatggtaga ggaccaagta tatgggatac 240
tttcatcaat caacatccag taagatagca gatggaacga a 281

<210> 592
<211> 429
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(429)
<223> unsure at all n locations

<400> 592

ccangattan tgccattttg tgggttggtt atcccgggca agctggggga actgccattg 60
ctgatgtant cnttggtaga actaaccag gangaagggtt acccatgaca tggtagccac 120
aaggttactt ggccaaagtg cccatgacaa acatggacat gcgtccaaac ccaacaacan 180
ggtacccaag aagaacctat agattctaca aangtcctgt antggtccca ttcggacatg 240
gcctaagtta ctcaanattc anccacagct tancacttgc ccccaaagag gtctcagtagc 300
ccataatgag cctccaagcc ttgacaaact caaccctctc aagcaaagca nntaangtga 360
gccatgcaa ttctgatgac tcattggaga tgganttcca cgttgatgtn aaaaaccaan 420
gctcaatgg 429

<210> 593
<211> 281
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(281)
<223> unsure at all n locations

<400> 593

caaaatacat cataagatat ggcattcgac gcttatttcc ttttgggcct catagctctt 60
gttcttggtta gcacttccaa agttacatgc gncntagaag cagatacagt ttcacctggt 120
attgacattt cactcaaccg gaacagnttc cagaaggggt catctttggg gcgggatctt 180
cctcgtacca gttcgaagggt gcagcaaagt atggtggttag aggaccaagc gtatgggata 240
ccttcaccca taattatcct ggtaagatca ttgatagaac a 281

<210> 594
<211> 271
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(271)
<223> unsure at all n locations

<400> 594
taagatatgg cattcgacgc ttatttcctt ttgggcctca tagctcttgt tcttggttagc 60
acttccaaag ttanatgcn antagaagca gatacagttt cacctgttat tgacatttca 120
ctcaaccgga acagnttcca gaagggttca tctttggggc gggatcttcc tcgtaccagt 180
tcgaagggtgc agcaaagtat ggtggttagag gaccaagcgt atgggatacc ttcaccata 240
attatcctgg taagatcatt gatagaagca a 271

<210> 595
<211> 253
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(253)
<223> unsure at all n locations

<400> 595
aaaaacatat cacacaatat ggcattcaag ggctatttcc ttctcggcct cgttactctt 60
gttcttggtta aatcttccaa agttacatgc gaancnagaa tcggttaata cagtttcacc 120
cattattgac atttcactca atcggaagag nttcccagaa gggttcatat ttggggcggg 180
atcttctctg taccagttcg aaggggcagc aaaggaaggt ggtagaggac caagtgtatg 240
ggataccttc acc 253

05975054-101501

<210> 596
 <211> 284
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(284)
 <223> unsure at all n locations

<400> 596

gaaaaacata tcacacaata tgggnattcaa gggntatttc cttctgcggc ntcgttactc 60
 ttgttcttng ntaaattcttc caaagttaca tgccgaancc gaatcagtta atacagtttc 120
 acccattatt gacatttgca ctcaatcgga agagnnttcc cagaagggtt catatttggg 180
 gcgggatctt ccgcgtacca gttcgaaggg gcagcaaagg aaggtagtag aggaccaagt 240
 gtatgggata ccttgcaccc ataattatcc aggaaagatc atgg 284

<210> 597
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 597

gtaagaaagg aaaatcatcc actgagccat acattgttgc tcataacatt ctcttgtcac 60
 atgctgctgc ctatagaagc taccaactac atttcaagga acaacaagga ggtcaaatag 120
 gaatagcact agatgtcatt tggtagaac ctataacaga acttgatgaa gacaaagacg 180
 cagcagcaag agctatggac ttttcacttg gatggttcct tgaccactt ttctttggaa 240
 aatattctct ctcaatggag aaactttag ctaagagatt gccggagatt tctgatacag 300
 cctcaaaatt tcttgtggga tctttggatt ttattggcat aaatcactac acctcagtct 360
 atactcgtaa cgacagga 378

<210> 598
 <211> 251
 <212> DNA
 <213> Glycine max

<400> 598

accaactaca tttcaaggaa caacaaggag gtcaaataagg aatagcacta gatgtcattt 60
 ggtatgaacc tataacagaa cttgatgaag acaaagacgc agcagcaaga gctatggact 120

tttcacttgg atggttcctt gaccacttt tctttggaaa atatcctctc tcaatggaga 180
aacttgtagc taagagattg cggagattt ctgatacagc ctcaaaattt cttgtgggat 240
ctttggattt t 251

<210> 599
<211> 252
<212> DNA
<213> Glycine max

<400> 599

tatcatcggg acatggaaga tattgatctt atagccaagt tgggatttga tgcttataga 60
ttttcaattt cttggtctcg gattttcccc gatggcttag gaacgaaaat caatgacgaa 120
gggataactt ttataacaa cattattaat ggtcttcttg aaagaggtat acaaccttat 180
gtaactttgt accattggga tcttcgctg catcttcacg agtcgatggg aggatggtta 240
aataaacaaa tc 252

<210> 600
<211> 418
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(418)
<223> unsure at all n locations

<400> 600

agaacactcc attgttgaca ttgagaagag aagagaagcn ggagaatgca atgggggctt 60
tgtacatgtc agttatggag atactcttgt tcctcttcat attcatatgc tctctcacac 120
caatctcaca gtcacaggga ttacatcaat ctccccctt tctctttggc acttcttctt 180
cttcgtacca gtatgaagga gcttatttga gtgatggcaa agggataagc aactgggatg 240
tcttcactca caaaccagggt agtatatctg acgaaagcaa cggatgatgtt gctgttgatc 300
aataccaccg gtatctggag gatattgatc taatggaagc tataaaaggt caatagctac 360
cggttttcaa tatcatgggc aagaattcta ccaaaggaa gatttggaga agtaaact 418

<210> 601
<211> 278
<212> DNA
<213> Glycine max

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<400> 601
 ttcatatgct ctctcacacc aatctcacag tcacagggat tacatcaatc tccccctttt 60
 ctcttttgga cttctttctt ttcgtaccag tatgaaggag cttatttgag tgatggcaaa 120
 gggataagca actgggatgt cttcactcac aaaccaggta gtatatctga cgaaagcaac 180
 ggtgatgttg ctggtgatca ataccaccgg tatctggagg atattgatct aatggaagct 240
 ataaaagtca atagctaccg gttttcaata tcatgggc 278

<210> 602
 <211> 426
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(426)
 <223> unsure at all n locations

<400> 602
 aaacgacaga aggggatcga agcaaaaaat gaaaacccaa agtgcttctc tcctctgtct 60
 ttttctctct cttgctatcc ttttggttag tggcactgct gcaagtgcaa ctccaagaag 120
 cgcagtgcc agccaccatg tttcaacatt caacagaagc ctttttcctt ccacttttct 180
 ctttggaatt ggttcttctg cttaccaggc agaaggagca gcaagtgtag atgggagagg 240
 accaagcata tgggacacct aactagaca gcatactgaa aagatttggg atcatagcac 300
 cggtgacatg ggaactgant tttatcatcc atacaagggg tgacataaaa attagcgaaa 360
 gaaanttggg ctggactcct tcanattccc caactcaang gtcaagaata ttcccaaaaag 420
 ggcaag 426

<210> 603
 <211> 425
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(425)
 <223> unsure at all n locations

<400> 603
 aagacgacag aaggggatcg aagcaaaaaa tgaaaaccca aagtgcttct ctctctgtc 60
 ttttctctct tcttgctatc cttttggcta gtggcactgc tgcaagtgca actccaagaa 120

gcgcagtgcc aagccacat gtttcaacat tcaacagaag cctttttcct tccacttttc 180
tcttttgaat tgggttcttct gcttaccagg cagaaggagc agcaagtgtg ggtgggagag 240
gaccaagcat atgggacacc ggacacnagg acagcatact gaaaagattt gggatcatag 300
caccggtgac atgggaagtg aattttaagc anccgagnca anggttacat nanaattgcg 360
aaaggnantt gggccgggac cctttnanat tccnnaagnt cagggggcaa gaatatgccg 420
aaagg 425

<210> 604
<211> 270
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(270)
<223> unsure at all n locations

<400> 604

gcggattttc gtggctacgc aaacttctgc ttcaagacct ttggagacag agtcaaatat 60
tgggtcactt tgaatgaacc cttatcattt agtctcaatg gctacaatgg tggcaccttt 120
ggcaccaggt agatgttcaa atacgttgcc aattgtagtg ctggcgattc atccactgaa 180
ccctatatcg ttggacacta cttattactt gcncatgaat ctgctgccac attatacaag 240
acaaatatca ggctcgtcaa aaaggacaat 270

<210> 605
<211> 338
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(338)
<223> unsure at all n locations

<400> 605

tgaaaaccca aagtgttctc ctctctgtc ttttctctc tcttgctatc cttttggcta 60
gtncgcactg ctgcaagtgc aactccaaga agcgcagtg ccaagccacca tgtttcaaca 120
ttcaacagaa gcctttttcc ttccactttt ctctttggaa ttgggttctc tgcttaccag 180
gcagaaggag cagcaagtgt agatgggaga ggaccaagca tatgggacac ctacactaga 240

cagcactactg aaaagatttg ggatcatagc accggtgaca tgggagctga tttttatcat 300
cgatacaagg gtgacataaa aatagcgaaa gaaattgg 338

<210> 606
<211> 324
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(324)
<223> unsure at all n locations

<400> 606

aaaaatgana acccaaagtg cttctctcct ctgtcttttt ctctctcttg ctatcctttt 60
ggctagtnng cactgctgca agtgcaatcc aagaagcgca gtgccaagcc accatgtttc 120
aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggtt cttctgctta 180
ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg acacctacac 240
tagacagcat actgaaaaga tttgggatca tagcaccggt gacatgggag ctgattttat 300
catcgataca agggtgacat aaaa 324

<210> 607
<211> 243
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(243)
<223> unsure at all n locations

<400> 607

caccggtgac atgggagctg atttttatca tcgatacaag ggtgacataa aaatagcgaa 60
agaaattngg gctgtactct ttcagattct nctatctcat ggtcaagaat attcccaaag 120
ggcaaggag cagttaaccc ccttgggggtt aaattctaca acaatgtcat cgatgagatc 180
ctagcaaatg gtttaaaacc tttgtcact ctttttcatt gggactttcc acaagctctt 240
gaa 243

<210> 608
<211> 300
<212> DNA
<213> Glycine max

<220>
 <221> unsure
 <222> (1)...(300)
 <223> unsure at all n locations

 <400> 608

 gatagcaaga gagaganaaa gacagaggag agangcactg ctgcaagtgc aactccaaga 60
 agcgcagtgc caagccacca tgtttcaaca ttcaacagaa gcctttttcc ttccactttt 120
 ctcttttggan ttggttcttc tgcttaccag gcagaaggag cagcaagtgt agatgggaga 180
 ggaccaagca tatgggacac ctacactaga cagcactactg aaaagatttg ggatcatagc 240
 accggtgaca tgggagctga tttttatcat cgatacaagg gtgataaaaa tagcgaaaga 300

<210> 609
 <211> 253
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(253)
 <223> unsure at all n locations

 <400> 609

 gnggcactgc tgcaagtgca actccaagaa gcgcagtgcc aagccaccat gtttcaacat 60
 tcaacagaag cctttttcct tccacttttc tctttggaat tggttcttct gcttaccagg 120
 cagaaggagc agcaagtgta gatgggagag gaccaagcat atgggacacc tacactagac 180
 agcactactga aaagatttgg gatcatagca ccggtgacat gggagctgat ttttatcatc 240
 gatacaaggg tga 253

<210> 610
 <211> 291
 <212> DNA
 <213> Glycine max

<400> 610

 caaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg ctatcctttt 60
 ggctagtcgc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc accatgtttc 120
 aacattcaac agaagccttt ttccttccac ttttctcttt ggacttgggtt cttctgctta 180
 ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg acacctacac 240

09976054-101501

tagacagcat actgaaaaga tttgggatca tagcaccggt gacatgggag c 291

<210> 611
<211> 286
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(286)
<223> unsure at all n locations

<400> 611

ccaaagtgct tctctcctct gtctttttct ctctcttgct atccttttgg ctagtngcag 60
tgctgcaagt gcaactccaa gaagcgcagt gccaaagccac catgtttcaa cattcaacag 120
aagccttttt ccttccactt ttctcttttg anttggttct tctgcttacc aggcagaagg 180
agcagcaagt gtagatggga gaggaccaag catatgggac acctacacta gacagcatac 240
tgaaaagatt tgggatcata gcaccggtga catgggagct gatatt 286

<210> 612
<211> 246
<212> DNA
<213> Glycine max

<400> 612

agatgttcta aatacgttgc caattgtagt gctggcgatt catccactga accctatatc 60
gttggacact acttattact tgctcatgaa tctgctgcca cattatacaa gacaaaatat 120
caggctcgtc aaaaaggaca aattgggatc actaatccaa cacactactt tttgccaaaa 180
tctcaaagtg ctgcagatta caaggcagca agtagagctc tgggctcttc tttggttggt 240
attctg 246

<210> 613
<211> 285
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(285)
<223> unsure at all n locations

<400> 613

ccaaagtgct tctctcctct gtctttttct ctctcttgct atccttttgg ctagtncgca 60

ctgctgcaag tgcaactcca agaagcgag tgccaagcca ccatgtttca acattcaaca 120
gaagcctttt tccttcact tttctcttg ganttggttc ttctgcttac caggcagaag 180
gagcagcaag tgtagatggg ngaggaccaa gcatatggga cacctacact agacagcata 240
ctgaaaagat ttgggatcat agcaccggtg acatgggagc tgatt 285

<210> 614
<211> 286
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(286)
<223> unsure at all n locations
<400> 614

caaaaaatga aaacccaaag tgcttctctc ctctgtcttt ttctctctct tgctatcctt 60
ttggctagtn cgcactgctg caagtgaac tccaagaagc gcagtgccaa gccaccatgt 120
ttcaacattc aacagaagcc ttttcccttc cacttttctc tttggaattg gttcttctgc 180
ttaccaggca gaaggagcag caagtgtaga tgggagagga ccaagcatat gggacaccta 240
cactagacag catactgaaa agatttgagg tcatagcacc ggtgac 286

<210> 615
<211> 186
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(186)
<223> unsure at all n locations
<400> 615

caaacttctg cttcaagacc tttggagaca gagtcaaata ttgggtcact ttgaatgaac 60
cctatcattt agtctcaat ggctacaatg gtggcacctt tgcaccaggt agatgttcta 120
aataacgttg ccaattgtag tgctggcgat tcatccactg anccctannt nnttggacac 180
tactta 186

<210> 616
<211> 278
<212> DNA

tngcactgct gcaagtgcaa ctccaagaag cgcagtgcc aagccaccatg tttcaacatt 120
 caacagaagc ctttttccctn ccacttttct ctttgggaatt ggttcttctg cttaccaggc 180
 agaaggagca gcaagtgtag atgggagagg accaagcata tgggacacct aactagaca 240
 gcatactgaa aagattggga tcatagcacc ggtgaca 277

<210> 619
 <211> 271
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(271)
 <223> unsure at all n locations
 <400> 619

aaatgaaaac ccaaagtgct tctctcctct gtctttttct ctctcttgc atccttttgg 60
 ctagtngcac tgctgcaagt gcaactccaa gaagcgcagt gccaaagccac catgttcaac 120
 attcaacaga agcctttttc cttccacttt tctctttgga cttgggttctt ctgcttacca 180
 ggcagaagga gcagcaagt tagatgggag aggaccaagc atatgggaca cctacactag 240
 acagcatant gaaaagattg gggntcatan c 271

<210> 620
 <211> 255
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(255)
 <223> unsure at all n locations
 <400> 620

cccaaagtgc ttctctctc tgtctttttc tctctcttgc tctccttttg gctagtngca 60
 ctgctgcaag tgcaactcca agaagcgcag tgccaagcca ccatgtttca acattcaaca 120
 gaagcctttt tcttccact tttctctttg gaattgggtc ttctgcttac caggcagaag 180
 gagcagcaag tgtagatggg agaggaccaa gcatatggga cacctacact agacagcata 240
 ctgaaaagat ttggg 255

<210> 621
 <211> 260

09976054-101501

<212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(260)
 <223> unsure at all n locations

 <400> 621

 aaaacccaaa gtgcttctct cctctgtctt tttctctctc ttgctatcct tttggctagt 60
 ngcactgctg caagtgaac tccaagaagc gcagtgccaa gccaccatgt ttcaacattc 120
 aacagaagcc tttttccttc cacttttctc tttggaattg gttcttctgc ttaccaggca 180
 gaaggagcag caagtgtaga tgggagagga ccaagcatat gggacaccta cactagacag 240
 catactgaaa agatttgga 260

<210> 622
 <211> 261
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(261)
 <223> unsure at all n locations

 <400> 622

 aaatgaaaac ccaaagtgt tctctctct gtcttttct ctctcttgt atccttttgg 60
 ctagtngcac tgctgcaagt gcaactncca agaagcgcag tgccaagcca ccatgtttca 120
 acattcaaca gaagcctttt tcttccact tttctctttg ganttggttc ttctgcttac 180
 caggcagaag gagcagcaag tgtagatggg agaggaccaa gcatatggga cacctacact 240
 agacagcata ctgaaaagat t 261

<210> 623
 <211> 279
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(279)
 <223> unsure at all n locations

 <400> 623

 tgaatgaacc cttatcnttt agtctcaatg ggctacnatg gtggcacctt tgcaccaggt 60

09976054-101501

agatgttcna aatancgttg caattggttag tgnntgggna ttaatcnatt gaacccaata 120
 ncgttggcca ctacttatta cttgctcatn aatctgctgc cacattatnc aagacaaaat 180
 atcaggcncg tcaaaaagga caaattggga tcaactaatcc aacacactac tttttgccaa 240
 aatctcaaag tgctgcagat tacaaggcag caagtagag 279

<210> 624
 <211> 255
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(255)
 <223> unsure at all n locations

<400> 624

tgaaaaccca aagtgttct ctcctctgtc tttttctctc tcttgctatc ctttnggcta 60
 gtngcactgc tgcaagtgca actccaagaa gcgcagtgcc aagccaccat gtttcaacat 120
 tcaacagaag cctttttcct tccacttttc tctttggaat tggttcttct gcttaccagg 180
 cagaaggagc agcaagtgta gatgggagag gaccaagcat atgggacacc tacactagac 240
 agcataactga aaaga 255

<210> 625
 <211> 254
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(254)
 <223> unsure at all n locations

<400> 625

agtgttctc tcctctgtct ttttctctct cttgctatcc ttttggctag tngcactgct 60
 gcaagtgcaa ctccaagaag cgcagtgcc aagccaccatg tttcaacatt caacagaagc 120
 ctttttcctt ccacttttct ctttggantt ggttcttctg cttaccaggc agaaggagca 180
 gcaagtgtag atgggagagg accaagcata tgggacacct acactagaca gcatactgaa 240
 aagatttggg atca 254

<210> 626

09976054-101501

<211> 264
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(264)
 <223> unsure at all n locations

 <400> 626

 gttctaggct cccaaaattc acaaaagctg aatctgaagg tctaaaaaat tccatagatt 60
 ttcccttggtg tgaattacta caccacttat tatgcggaac atgctgaacc tgtcagtgcc 120
 aaccgaacct tctacacaga catacnacnn ngctctcagta cggaaaggaa tggctctacat 180
 gttggaaccc cgactgattt gaattggctc tttatctttc caaagggaat tcctcttcta 240
 ggggcacaca taaaggataa atac 264

<210> 627
 <211> 146
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(146)
 <223> unsure at all n locations

 <400> 627

 tgggtggcacc tttncaccag gtagatgttc taaatacggt gccaatgtga gtgctggcga 60
 ttcanccact gtaccctata tcgttggaca ctacttatta cttgctcatg aatctgntgc 120
 cacattatac aagacaaaat atcagg 146

<210> 628
 <211> 258
 <212> DNA
 <213> Glycine max

 <400> 628

 cccaaagtgc ttctctctc tgtctttttc tctctcttgc tctcttttg gctagttgca 60
 ctgctgcaag tgcaactcca agaagcgcag tgccaagcca ccatgtttca acattcaaca 120
 gaagcctttt tccttccact tttctctttg gaattggctt ttctgcttac caggcagaag 180
 gagcagcaag tgtagatggg agaggaccaa gcatatggga cacctacact agacagcata 240
 tgaaaagatt tgggatca 258

09976054-101501
 T05T0T-45092660

<210> 629
 <211> 260
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(260)
 <223> unsure at all n locations

<400> 629

aaacccaaag tgnttctctc ctctgtnttt ttctctctct tgctatcctt ttggctagtn 60
 gcactgctgc aantgcaact ccaagaagcg cagtgccaaag ccaccatggt tcaacattca 120
 acagaagcct ttttccttcc acttttctct ntggtagtgg ttcttctgct taccaggcag 180
 aaggagcagc aagtgtatagat gggagangac caagcatatg ggacacctac actagacagc 240
 atactgaaaa gattgggatc 260

<210> 630
 <211> 261
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(261)
 <223> unsure at all n locations

<400> 630

ganaacccaa agtgcttctc tctctgtctt ttttctctct cttgctatcc ttttggctag 60
 tngcactgct gcaagtgcaa cttccaagaa ggcagtgcc aagccaccat gtttcaacat 120
 tcaacagaag ccttttttct tccacttttc tctttggact tggttcttct gcttaccagg 180
 cagaaggagc agcaagtgta gatgggagag gaccaagcnt atgggacacc tacactagac 240
 agcatactgn naagatttgg g 261

<210> 631
 <211> 271
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(271)
 <223> unsure at all n locations

05976054-101501

<400> 631
 ganaacccaa agtgcttctc tcctctgtct ttttctctct cttgctatcc ttttggctag 60
 tngcactgct gcaagtgcaa ctccaagaag cgcagtgcc aaccaccatg tttcaacatt 120
 caacagaagc ctttttcctt ccacttttct ctttgggaatt ggttcttctg cttaccaggc 180
 agaaggagca gcaagtgtag atgggagagg accaagcata tgggacacct acactagaca 240
 gcatactgaa aagattggga tcatagcacc g 271

<210> 632
 <211> 259
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1) ... (259)
 <223> unsure at all n locations

<400> 632
 aatgaaaacc caaagtgtt ctctcctctg tctttttctc tctcttgcta tccttttggc 60
 tagtngcact gctgcaagt caactccaag aagcgcagt ccaagcacca tgtttcaaca 120
 ttcaacagaa gcctttttcc ttccactttt ctctttggaa ttggttcttc tgcttaccag 180
 gcagaaggag cagcaagtgt agatgggaga ggaccaagca tatgggacac ctacactaga 240
 cagcactactg aaaagattg 259

<210> 633
 <211> 253
 <212> DNA
 <213> Glycine max

<400> 633
 gtgcttctct cctctgtctt tttctctctc ttgctatcct tttggctagt ggcactgctg 60
 caagtgcaac tccaagaagc gcagtgccaa gccaccatgt ttcaacattc aacagaagcc 120
 tttttccttc cacttttctc tttggaattg gttcttctgc ttaccaggca gaaggagcag 180
 caagtgtaga tgggagagga ccaagcatat ggacacctac actagacagc atactgaaaa 240
 gatttgggat cat 253

<210> 634
 <211> 261

<212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(261)
 <223> unsure at all n locations
 <400> 634
 gcttctctcc tctgtctttt tctctctctt gctatccttt tggctagtgg cactgctgca 60
 agtgcaactc caagaagcgc agtgccaagc caccatgttt caacattcaa cagaagcctt 120
 tttcctttcca cttttctctt tgganttggg tcttctgctt accaggcaga nggagcagca 180
 agtgtagatg ggagaggact aagcatatgg gacacctaca ctagacagca tactgaaaag 240
 atttgggatc atagcaccgg t 261

<210> 635
 <211> 272
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(272)
 <223> unsure at all n locations
 <400> 635
 aatgaaaacc caaagtgctt ctctcctctg tctttttctc tctcttgcta tccttttggc 60
 tagtngcact gctgcaagtg caacttccaa gaagcgcagt gccaaagccac catgnnttcaa 120
 cattcaacag aagccttttt ccttccagtt ntctntttgg aattggttct tcnngcttacc 180
 aggcagaagg agcngcaagt gtananggga gaggaccaag canatgggag anatacacna 240
 gngaggatan tgaaaagntt tggggtcata gc 272

<210> 636
 <211> 248
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(248)
 <223> unsure at all n locations
 <400> 636
 aaaaatgaaa ncccaaagtg cttctctcct ctgtcttttt ctctctcttg ctatcctttt 60

ggctagtggc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc accatgtttc 120
aacattcaac agaagccttt ttccttcac tttctctttt ggacttgggtt cttctgctta 180
ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg acacctacac 240
tagacagc 248

<210> 637
<211> 246
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(246)
<223> unsure at all n locations
<400> 637

aaaatgaaaa cccaaagtgc ttctctctc tgtctttttc tctctcttgc tatccttttg 60
gctagtngca ctgntgcaag tgcaactcca agaagcgag tgccaagcca ccatgtttca 120
acattcaaca gaagcctttt tccttcact tttctctttg ganttggttc ttctgcttac 180
caggcagaag gagcagcaag tgtagatggg agaggaccaa gcatatggga cacctacact 240
agacag 246

<210> 638
<211> 243
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(243)
<223> unsure at all n locations
<400> 638

cccaaagtgc ttctctctc tgtctttttc tctctcttgc tatccttttg gctagtngca 60
ctgctgcaag tgcaactcca agaagcgag tgccaagcca ccatgtttca acattcaaca 120
gaagcctttt tccttcact tttctctttg gaatttggttc ttctgcttac caggcagaag 180
gagcagcaag tgtagatggg agaggaccaa gcatatggga cacctacact agacagcata 240
ctg 243

<210> 639

09976054-101501

<211> 246
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(246)
 <223> unsure at all n locations

 <400> 639

 tgaaaaccca aagtgttct ctctctgtc ttttctctc tcttctatc cttttggcta 60
 tngcactgc tgcaagtgc actccaagaa gcgcagtgcc aagccaccat gtttcaacat 120
 tcaacagaag cctttttcct tccacttttc tctttgggct tggttcttct gcttaccagg 180
 cagaaggagc agcaagtgt gatgggagag gaccaagcat atgggacacc tacactagac 240
 agcata 246

<210> 640
 <211> 247
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(247)
 <223> unsure at all n locations

 <400> 640

 gaaaacccaa agtgcttctc tctctgtct ttttctctc cttgctatcc ttttggctag 60
 tngcactgct gcaagtgcaa cttccaagaa gcgcagtgcc aagccaccat gtttcaanca 120
 ttcaacagag ccctttttcc ttccactttt ctctttggan ttggttcttc tgcttaccag 180
 gcagaaggag cagcaagtgt agatgggaga ggaccaagca tatgggacac ctacactaga 240
 cagcata 247

<210> 641
 <211> 270
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(270)
 <223> unsure at all n locations

 <400> 641

09976054-101501

gatcgaagca naanatgaaa acccaaagtg gcttctctcc tctgcntttt tctctctctt 60
 ggctaatacct tttgggctag tngcactggc tgcaagtgca actccaagaa gcgcagtgcc 120
 aagccacat gtttcagcat tcaacagaag cctttttcct tccacttttc tctttggaat 180
 tggttcttct gcttaccagg cagaaggagc agcaagtgta gatgggagag gnccaagcat 240
 atgggacacc tacactagac agcatactga 270

<210> 642
 <211> 255
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(255)
 <223> unsure at all n locations

<400> 642
 taaatgnaaa cccaaagtgc ttctctctc tgtctttttc tctctctngc tatccttttg 60
 gctantngca ctgctgcaag tgcaactcca ngaagcgagc tgccaagcca ccatgtttca 120
 acattcaaca gaagcctttt tcttctnact tttctctttg gaattgggtc ttctgcttac 180
 caggcagaag gagcagcaag tgtagatggg agaggaccna ncatatggga cacctacact 240
 agacagcata ctgnc 255

<210> 643
 <211> 252
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(252)
 <223> unsure at all n locations

<400> 643
 gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
 ctatcctttt ggctagtggc actgctgcan ccgcaactcc aagaagcgca gtgccaagcc 120
 accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggt 180
 cttctgctta ccaggcagaa ggagcancaa gtgtagatgg gagaggacca agcatatggg 240
 acacctacac ta 252

<210> 644
<211> 239
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(239)
<223> unsure at all n locations

<400> 644

tgaaaaccca aagtgttct ctctctgtc ttttctctc tcttgctatc cttttggcta 60
gtggcactgc tgcaagtga antccaagaa gcgcagtgcc aagccaccat gtttcaacat 120
tcaacagaag cctttttcct tccacttttc tctttggant tggttcttct gcttaccagg 180
cagaaggagc agcaagtgtg gatgggagag gaccaagcat atgggacacc tacactaga 239

<210> 645
<211> 254
<212> DNA
<213> Glycine max

<400> 645

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt cactctcttg 60
ctatcctttt ggctagtggc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggt 180
cttctgctca ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg 240
acacctacac taga 254

<210> 646
<211> 119
<212> DNA
<213> Glycine max

<400> 646

ccgggagagt atgaaatctt cagtaggttc taggctccca aaattcacia aagctgaatc 60
tgaaggctca aaaaattcca tagattttct tgggtgtgaat tactacacca cttattatg 119

<210> 647
<211> 249
<212> DNA
<213> Glycine max

<220>

<221> unsure
<222> (1)...(249)
<223> unsure at all n locations

<400> 647

cttgctgcct tgnctctgc agcaagtaga nctctggact tcttctntgg ttggtnttct 60
gatccggttt tctatggtga ctatccggcg agtatgnant cttcagtagc ntctaggntc 120
ccanaattca cnaaagctga ntctgaaggt ctanaaantt ccatagnttt tcttggtgtg 180
nnttantnca ncaactnttn tgcggaacat gctgaacctg tcagtgccaa ccgaacntct 240
acacagaca 249

<210> 648
<211> 250
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(250)
<223> unsure at all n locations

<400> 648

ggaagcaaaa natgaaaacc caaagtgctt ctctctcan tctttttctc tctcttgcta 60
tctttttggc tagtggcact gctgcaagt caactccaag aagcgcagt ccaagccacc 120
atgtttcaac attcaacaga agcctttttc cttccacttt tctctttgga attggttctt 180
ctgcttacca ggcagaagga gcagcaagt tagatgggag aggaccaagc atatgggaca 240
cctacactag 250

<210> 649
<211> 237
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(237)
<223> unsure at all n locations

<400> 649

caaaaaatga aaacccaaag tgcttctctc ctctgtcttt ttctctctnt tgctatcctt 60
ttggctagtg gcaactgctgc aagtgcaact ccaagaagcg cagtgccaa ccaccatgtt 120
tcaacattca acagaagcct ttttccttcc acttttctct ttggaattgg ttcttctgct 180

taccaggcag aaggagcagc aagtgtagat gggagaggac caagcatatg ggacacc 237

<210> 650
<211> 252
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(252)
<223> unsure at all n locations

<400> 650

gatcgaagca aaaaatgaaa acccaaagtg cttctgctcc tctgtctttt tctctctctt 60
gctatccttt tggctagtng cactgctgca agtgcaactc caagaagcgc agtgccaagc 120
caccatgntt caacattcaa cagaagcctt tttccttcca cttttctctt tggaattggg 180
tcttctgctt accaggcaga aggagcagca agtgtagatg ggagaggacc aagcatatgg 240
gacacctaca tt 252

<210> 651
<211> 251
<212> DNA
<213> Glycine max

<400> 651

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
ctatcctttt ggctagtggc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggt 180
cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg 240
acacctacac t 251

<210> 652
<211> 251
<212> DNA
<213> Glycine max

<400> 652

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
ctaccctttt ggctagtggc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggt 180

cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg 240
acacctacac t 251

<210> 653
<211> 257
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(257)
<223> unsure at all n locations

<400> 653

gggacatcga agcaaaaaat gaaaacccaa antgctttct ctctctgtc tttttctctc 60
tcttgctatc cttttggcta ntngcactgc tgcaagtgc actccaagaa gcgcagtgcc 120
aagccaccat ntttcaacat tcaacagaag cctctttcct tccacttttc tctttggaat 180
tggttcttct gcttaccagg cagaaggagc agcaagtgna gatgggagag gaccaagcnt 240
atgggacacc tacacta 257

<210> 654
<211> 270
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(270)
<223> unsure at all n locations

<400> 654

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
ctatcctttt ggctannggc actgctgcaa gtgcanctcc aagaagcgca gtgccaagcc 120
accatgtttc aacattcaac agaagccttt ttctttccac ttttctcttt gganttggtt 180
cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg 240
acacctacac ttagacagca tactgaaagg 270

<210> 655
<211> 253
<212> DNA
<213> Glycine max

<220>
 <221> unsure
 <222> (1)...(253)
 <223> unsure at all n locations

<400> 655

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct actgtctttt tctctctctt 60
 gctatccttt tggctagtng cactgctgca agtgcaactc caagaagcgc agtgccaagc 120
 caccatgttt caacattcaa cagaagcctt tttccttcca cttttctctt tgganttggt 180
 tcttctgctt accaggcaga aggagcagca agtgtagatg ggagaggacc aagcatatgg 240
 gacacctaca cta 253

<210> 656
 <211> 270
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(270)
 <223> unsure at all n locations

<400> 656

gggacatcga agcaaaaaat gaaaacccaa agtgctttct nctcctctgt ctttttctct 60
 cctcttgcta tccttttggg ctagtgngca ctgctgcaag tgcaactccc aagaagcgc 120
 gtgccaagcc accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt 180
 ggaattgggt cttctgctta ccaggcagaa ggagcagnaa gtgtagatgg gagaggncca 240
 agcatatggg acacctacnc taganagcnt 270

<210> 657
 <211> 247
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(247)
 <223> unsure at all n locations

<400> 657

gaaaacccaa agtgcttctc tcacctgtcc tttttctcta nccttgctat ccttttggct 60
 agtngcactg ctgcaagtgc aactccaaga agcgcagtgc caagccacca tgtttcaaca 120

ttcaacagaa gcctttttcc ttccactttt ctctttggaan ttggttcttc tgctttccag 180
gcagaaggag cagcaagtgt agatgggaga ggaccaagca tatgggacac ctncactaga 240
cagcata 247

<210> 658
<211> 254
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(254)
<223> unsure at all n locations

<400> 658

gatogaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctncctctctt 60
ngctatcctt ttggctagtn gcaactgctgc aagtgcact ccaagaagcg cagtgccaaag 120
ccaccatggt tcaacattca acagaagcct ttttccttcc acttttctct ttggaattgg 180
ttcttctgct taccaggcag aaggagcagc aagtgtagat gggagaggac caagcatatg 240
ggacacctac atag 254

<210> 659
<211> 169
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(169)
<223> unsure at all n locations

<400> 659

cagtgccaaag ccacatgttt caacattcaa cagaagcctt tttccttcca cttttctctt 60
tggaattggt tcttctgctt accaggcaga aggagcagca agtgtagatn nngagaggac 120
caagcatatg ggacacctac actagacagc atactgaaaa gattgggat 169

<210> 660
<211> 267
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(267)

<223> unsure at all n locations

<400> 660

gaaaacccaa agtgcttctc tectctgtct ttttctctct cttgctatcc ttttggctag 60
 tngcactgct gcaagtgcaa cttccaagaa gcgcagtgcc aagccaccat gtttcaacat 120
 tcaacagaag cctttttcct tccacttttc tctttggant tggttcttct gcttaccagg 180
 cagaaggagc agcaagtgta gatgggagag gaccaagcat atggncacct ncantagaca 240
 gcatactgaa aagatttggg gatcatc 267

<210> 661

<211> 169

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)...(169)

<223> unsure at all n locations

<400> 661

cctgaatctg ctgccacatt atacaagaca aaatatcagg ctgctcnaaa aggacaaatt 60
 gggatcacta atccaacaca ctactttttg ccaaaatctc aaagcgctgc agattacaag 120
 gcagcaagta gagctctggn cttcttcttt ggtggtattc tganccggt 169

<210> 662

<211> 247

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)...(247)

<223> unsure at all n locations

<400> 662

gatcgaagca aaaaatgaaa acccaaagtg cttctactcc tctgtctntt tctctctctt 60
 gctatccttt tgggctagtn ggcactgctg caagtggcaa ctccaagaa gcgcagtgcc 120
 aagccaccat gnttcaacat tcaacagaag cctttttcct tcnacttttc tctttggaat 180
 tggttcttct gcttaccagg cagaaggagc agcaagtgta gatgggagag gaccaagcat 240
 atgggac 247

<400> 663

<400> 664

<400> 665

260

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
 ctatcctttt ggctagtngc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
 ancatgttcc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggt 180
 cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg 240
 gcacctac 248

<210> 666
 <211> 242
 <212> DNA
 <213> Glycine max

<400> 666

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
 ctatcctttt ggctagtggc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
 accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggt 180
 cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg 240
 ac 242

<210> 667
 <211> 247
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(247)
 <223> unsure at all n locations

<400> 667

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
 ctatcctttt ggctagtggc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
 accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggt 180
 cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg nngaggacn nnnatatggg 240
 acacctta 247

<210> 668
 <211> 274
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(274)
 <223> unsure at all n locations

 <400> 668

 caaaaaatga aaaccctaaag tgcttctctc ctgntgtctt tttctctctc ttgctatcct 60
 tttggctagt ngcactgctg caagtncaac tccaagaagc gcagtgccaa gncagcatgt 120
 ttcaacattc aacagaagcc tttttccttc cacttttctc tttgganatg gttcttctgc 180
 ttaccaggca gaaggagcag caagtgtaga tgggagnagn ccaagcatat gggacaccta 240
 catagacagc atactgaaaa gattgggatn atac 274

<210> 669
 <211> 244
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(244)
 <223> unsure at all n locations

 <400> 669

 gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
 ctatcctttt ggctagtngc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
 accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggt 180
 cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg 240
 acac 244

<210> 670
 <211> 243
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(243)
 <223> unsure at all n locations

 <400> 670

 gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
 ctatcctttt ggctagtngc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120

accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggtt 180
 cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg 240
 acc 243

<210> 671
 <211> 251
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(251)
 <223> unsure at all n locations
 <400> 671

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
 ctatcctttt ggctagtngc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
 accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt gganttggtt 180
 cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca gcatatggga 240
 cacctacact a 251

<210> 672
 <211> 275
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(275)
 <223> unsure at all n locations
 <400> 672

gggaatcctn cgtaaggtaa acggcnaagg tngtaaggaa tcattgccat ctttctactt 60
 tactttgtgg anagctncca gggacaccta cactagacag catactgaaa agatttgggg 120
 tcatagcacc ggtgacatgg gagctgattt ttatcatcga tacaagggtg acatacanca 180
 agcganagan attgggctgg actctttcag attctctatc tcatgggtcaa gaatattccc 240
 aanggcnaagg gagcagttaa ccccttggg gttaa 275

<210> 673
 <211> 241
 <212> DNA

<213> Glycine max
 <400> 673
 gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
 ctatcctttt ggctagtggc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
 accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggt 180
 cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagagggcca agcatatggg 240
 a 241

<210> 674
 <211> 223
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(223)
 <223> unsure at all n locations

<400> 674
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 tggcaactgct gcaagtgcaa ctccaagaag cgcagtgcc aagccaccatg tttcaacatt 120
 caacagaagc ctttttctct ccacttttct ctttggannt gggtcttctg cttaccaggc 180
 agaaggagca gcaagtgtag atgggagagg accaagcata tgg 223

<210> 675
 <211> 286
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(286)
 <223> unsure at all n locations

<400> 675
 gtaacagcaa tggagctgtc ttccagtgca tttgtggtaa tattgttggc agtcgcagct 60
 acagcagtac tctgcaaatt gggtggatct atctttcntg cccagcgatt tcctcnttgg 120
 cattgcttct tcctcttacc agtatgaagg agcttacaag agtgacggca aaggactgag 180
 caactgggat aactacactc acggaccagg tagaagtgtg ataattgatg gaagcaatgg 240
 ggatatcgcg attgatcatt atcatcgcta cctggaggat atagat 286

<210> 676
 <211> 261
 <212> DNA
 <213> Glycine max

<400> 676

gttggcagtc gcagctacag cagtactctc aaatggggtg gatctatctt tcttgcccag 60
 cgatttcctc tttggcattg cttcttcctc ttaccagtat gaaggagctt acaagagtga 120
 cggcaaagga ctgagcaact gggataacta cactcacgga ccaggtagaa gtgtaataat 180
 ggatggaagc aatggggata tcgcgattga tcattatcat cgctacctgg aggatataga 240
 tttaatggaa actttgggag t 261

<210> 677
 <211> 260
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(260)
 <223> unsure at all n locations

<400> 677

cagatagaag gagcagcagc tatagatggc agaggaccaa gtatatggga cacctatact 60
 aaacagcaac caggggaagat ttgggatcat agtgatggaa gtctagcaat tgatttttat 120
 caccggtaca agacgacata aagatggtga nagaagtngg gttggattca tacagatttt 180
 ccatctcatg gtccagaata ttccccaagg gcaagggagc agttaacacc ttgggggtca 240
 agttctacaa cgatctcatt 260

<210> 678
 <211> 263
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(263)
 <223> unsure at all n locations

<400> 678

agatagaagg agcagcagct atagatggca gaggaccaag tatatccgga cacctatact 60

aaacagcaac canggaagat ttgggatcan agtgatggaa gtctagcaat tgatTTTTt 120
caccggtaca agagcacata aagatggtga aagaagttgg gttggattca tacagatttt 180
ccatctcatg gtccagnata tttcccnng gggcnaggga gcagtaacac cntngggggc 240
ccantctncc aagancnct ttt 263

<210> 679
<211> 301
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(301)
<223> unsure at all n locations
<400> 679

anatgaacca tatggctaca gcgtgaatgg ctacagtggg ggaaattttg caccaggtag 60
atgttctaac tangttggaa aatgccctgc nggtgattct tccaccgagc cctacattgt 120
taaccaccac ttaatacttg ctcattggagc agcagtcaat tgctacaaga acaaatacca 180
ggctcatcag anaggacaaa ttgngtcac catagtgact ttcttctttg aacaaaaatc 240
taatagtgat gctgatcgca aggcagcaag gcgagctctg gacttatgtt tggctgggtt 300
g 301

<210> 680
<211> 271
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(271)
<223> unsure at all n locations
<400> 680

angtttgaga attganttcg ttcagatttg aaaatgtggg ttaaggttgt tccttcttct 60
ccttgagca ctttctcttt ttcacttagc cgcagcttac tcttaatcgt agcagttttt 120
cagcagattt cttcttttga acagcttctt cagcttacca gtatgaaggc gcagcacgtg 180
aagggtggcaa gggacctagt atatgggaca ctttactgc atagccacc agatagaata 240
gcagaccaca gtaatgggga gttgcatga t 271

09976054-101501

<210> 681
 <211> 452
 <212> DNA
 <213> Glycine max

 <400> 681

 aacaaagtaa gagttcactc aatctcactg tgttgtgagt tgtgtgtgag caccaaccaa 60
 caatgggtgtc tctgactccg ttatgtttct ttattacctt gttgatcgct ggtgcagacg 120
 cagcggcgga gccccaaacg gtgcgttttg acaccggggg gttgagcaga gacacctttc 180
 ccaaaggatt cttattcgga acggccacgt ctgcgtacca agtggagggt atggcccaca 240
 aagacggtcg cggcccaagc atttgggacg tcttcatcaa aaaacccggg attgtcgcaa 300
 ataatggcac gggagaagtt tctgttgatc aagtaccatc gctacaaaga agatatagat 360
 ctcatggcca gcctgaattt tgatgcctac cggttctcaa tctcgtggtc cagaattttt 420
 ccaaattggaa ctggccaagt aaattggaaa ag 452

<210> 682
 <211> 357
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(357)
 <223> unsure at all n locations

<400> 682

 cttcatcaaa aaacccggga ttgtcgcaaa taatggcacg ggagaagttt ctgttgatca 60
 gtaccatcgc tacaagaag atatagatct catggccagc ctgaattttg atgcctaccg 120
 gttctcaatc tcgtgggtcca gaatttttcc aaatggaact ggccaagtaa attggaangg 180
 tgtagcatac tacaataggt tgatcaatta cttgctagag aaaggtatta ctccatatgc 240
 aaatctctac cattatgatc ttccttttagc acttgaggag aggtacaacg gattattgag 300
 tcgccaagtt gtgaaagatt ttgcagatta tgcagaatth tgtttcaaga cttttgg 357

<210> 683
 <211> 444
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(444)

<223> unsure at all n locations

<400> 683

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aaacanagta agagttcact caatctcact gtgtgtgtgag ttgtgtgtga gcaccaacca 60
acaatggtgt ctctgactcc gttatgtttc tttattacct tgttgatcgc tgggtgcagac 120
gcagcggcgg agcccccac ggtgcgtttt gacaccgngg ggttgagcag agacaccttt 180
cccaaaggat tcttattcgg aacggccacg tctgcgtacc aagtggaggg tatggccac 240
aaagacgggc ggggccaag catttgggac gtcttcatca aaaaaccgg gattgtcgca 300
aataatggca cgggagaagt ttctgttgat cagtnccatc nctacaaagg aagatataga 360
tctcatggnc agcctgaatt ttgatgccta ccggttttna atctcgtggt ccagaaattt 420
ttcnaatggn acttggccaa gtaa 444

```

<210> 684

<211> 430

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)...(430)

<223> unsure at all n locations

<400> 684

```

caaaaacaaa aacaaagtaa gagttcactc aatctcactg tggtgtgagt tgtgtgtgag 60
caccaaccaa caatggtgtc tctgactccg ttatgtttct ttattacctt gttgatcgct 120
ggtgcagacn cagcggcggg gcccacaaac gtgcgttttg acaccggggg gttgagcaga 180
gacacctttc ccaaaggatt cttattcggg acggccacgt ctgcgtacca agtggagggg 240
atggcccaca aagacggtcg cggnccaagc atttgggacg tcttcatcaa aaaaccggg 300
attgtcgcaa ataatggcac gggagaagtt tctgttgatc aagtaccatc gctacaaaga 360
agatattagg gatctcatgg ccagcctgaa ttttgatgcc taccggttct caatctcgtg 420
gtccagaatt 430

```

<210> 685

<211> 382

<212> DNA

<213> Glycine max

<400> 685

caaaaacaaa aacaaagtaa gagttcactc aatctcactg tgttgtgagt tgtgtgtgag 60
 caccaaccaa caatggtgtc tctgactccg ttatgtttct ttattacctt gttgatcgct 120
 ggtgcagacg cagcggcgga gcccacaaacg gtgcgttttg acaccggggg gttgagcaga 180
 gacacctttc ccaaaggatt cttattcgga acggccacgt ctgcgtacca agtggagggg 240
 atggcccaca aagacggtcg cggcccaagc atttgggacg tcttcatcaa aaaacccggg 300
 attgtcgcaa ataatggcac gggagaagtt tctgttgatc agtaccatcg ctacaaagaa 360
 gatatagatc tcatggccag cc 382

<210> 686
 <211> 277
 <212> DNA
 <213> Glycine max
 <400> 686

gtaaattgga aaggtgtagc atactacaat aggttgatca attacttgct agagaaaggt 60
 attactccat atgcaaatct ctaccattat gatcttcctt tagcacttga ggagaggtac 120
 aacggattat tgagtcgcca agttgtgaaa gattttgcag attatgcaga attttgttta 180
 tacgactttt ggagatagag ttaagaattg gatgacgttt aacgaacctc gtgtgggtggc 240
 tgctcttggc tatgataatg gtttctttgc cccggaa 277

<210> 687
 <211> 262
 <212> DNA
 <213> Glycine max
 <400> 687

gcgacgtctg cgtaccaagt ggaggggatg gccacaaaag acggtcgcgg cccaagcatt 60
 tgggacctct tcatcaaaaa acccgggatt gttgcaaata atggcacggg agaagtttct 120
 gttgatcagt accatcgcta caaagaagat atagatctca tggccagctt gaattttgat 180
 gcctaccggt tctcaatctc gtggtccaga atttttccaa atggaactgg ccaagtaaat 240
 tggaaggtg tagcatacta ca 262

<210> 688
 <211> 272
 <212> DNA
 <213> Glycine max
 <220>

09976054-101501

<221> unsure
 <222> (1)...(272)
 <223> unsure at all n locations

 <400> 688

 ctaaattgga aaggtgtagc atactacaat aggttgatca attacttgct agagaaaggt 60
 attactccat atgcaaattct ctaccattat gatcttcctt tagcacttga ggagaggtac 120
 aacggattat tgagtcgcca agttgtgaaa gattttgcag attatggcag aattttgttt 180
 caagactttt ggagatagag ttaagaatgg gatgangttn aacgaacctc gtgtgggtggc 240
 tgctcttggc tatgataang gttctttgcc cc 272

<210> 689
 <211> 271
 <212> DNA
 <213> Glycine max

<400> 689

 tggaataaaa ctatgtgagc taaagtatgt ttaatttgac aggaagatat agatctcatg 60
 gccagcttga attttgatgc ctaccggttc tcaatctcgt ggtccagaat ttttccaaat 120
 ggaactggcc aagtaaattg gaaaggtgta gcatactaca ataggctgat caattacttg 180
 ctagaaaaag gtattactcc atatgcaa atctaccatt atgatcttcc tttagcactt 240
 gaggagaggt acaacggatt attgagccgg c 271

<210> 690
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 690

 aagacgacag aaggggggaca ttatcttttc tcttcacaaa aacaaaaaca aagtaagagt 60
 tcaactcaatc tcaactgtgtt gtgagttgtg tgtgagcacc aaccaacaat ggtgtctctg 120
 actccgttat gtttctttat taccttggtg atcgctgggtg cagacgcagc ggcggagccc 180
 caaacgggtgc gttttgacac cgggggggttg agcaagagac acctttccca aaggattctt 240
 attcggaacg gccacgtctg cgtaccaagt ggaggggtatg gccacaaaag acggtcgcgg 300
 cccaagcatt tgggacgtct tcatcaaaaa acccgggatt gtcgcaaata atggcacggg 360
 agaagttt 368

09976054-103501

<210> 691
 <211> 246
 <212> DNA
 <213> Glycine max

<400> 691

gccaaagtaaa ttggaaagggt gtagcatact acaataggct gatcaattac ttgctagaaa 60
 aagggtattac tccatatgca aatctctacc attatgatct tccttttagca cttgaggaga 120
 ggtacaacgg attattgagc cggcaagttg tgaatgattt tgcagattat gcagaatttt 180
 gtttcaagac ttttggagat agagttaaga attggatgac gtttaatgaa cctcgtgtgg 240
 tggctg 246

<210> 692
 <211> 277
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(277)
 <223> unsure at all n locations

<400> 692

agtaagagtt cactcaatct cactgtgttg tgagttgtgt gtgagcacca accaacaatg 60
 gtgtctctga ctccgttatg tttctttatt accttgttga tcgctggtgc anacgcagcg 120
 gcggagcccc aaacggtgcg ttttgacacc ggggggttga ncagagacac ctttcccaaa 180
 ggattcttat tcggaacggc cacgtctgcg taccaagtgg agggatatggc ccacaaagac 240
 ggtcgcggcc caagcatttg ggacgtcttc atcaaaa 277

<210> 693
 <211> 294
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(294)
 <223> unsure at all n locations

<400> 693

caaaaacaaa aacaaagtaa gagttcactc aatctcactg tgttgtgagt tgtgtgtgag 60
 caccaaccaa caatggtgtc tctgactccg ttatgtttct ttattacctt gttgatcgct 120

ggtgcagacg cagcggcgga nccccaaacg gtgcgttttg acaccggggg gttgagcaga 180
gacacctttc ccaaaggatt cttattcgga acggccacgt ctgcgtacca agtggagggg 240
atggcccaca aagacggtcg cggcccaagc atttgggacg tcttcatcaa aaaa 294

<210> 694
<211> 291
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(291)
<223> unsure at all n locations
<400> 694

caaanacaaa gtaaganttc antcaatctc actgtgttgt gagttgtgtg tgagcnccaa 60
ccaacaattg gtgtctctga ntccgttatg tttctttatt accttgttga tcgctgggtgc 120
agacgcagcn gcggatcccc aaacgggtgcg ttttgacacc gggggggtga gcagagacac 180
ctttcccaaa ggnttcttat tcggaacggc cacgtctgcg taccaagtgg agggatatggc 240
ccacaaagac ggtcgcggcc caagcatttg ggacgtcttc atcaaaaaac c 291

<210> 695
<211> 280
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(280)
<223> unsure at all n locations
<400> 695

caaaaacaaa gtaagagttc actcaatctc actgtgttgt gagttgtgtg tgagcaccaa 60
ccaacaatgg tgtctctgac tccgttatgt ttctttatta ccttgttgat cgctgggtgca 120
gacgnngcgc gagccccaaa cgggtgcgttt tgacaccggg gggttgagca gagacacctt 180
tcccaaagga ttcttattcg gaacggccac gtctgcgtac caagtggagg gtatggccca 240
caaagacggt cgcggcccaa gcatttggga cgncttcac 280

<210> 696
<211> 263
<212> DNA
<213> Glycine max

09976054-101504

<220>
 <221> unsure
 <222> (1)...(263)
 <223> unsure at all n locations

<400> 696

ctcaatctca ctgtgttgtg agtngtgtgt gagcaccaac caacaatngt gtctctgact 60
 ccgttatgtt tctttattac cttgttgacc gctggtgcag acgcagcggc gganccccaa 120
 acggtgcgtt ttgacaccgg ggggttgagc agagacacct ttcccaaagg attcttattc 180
 ggaacggcca cgtctgcgta ccaagtggag ggtatggccc acaaagacgg tcgcggccca 240
 agcatttggg acgtcttcat caa 263

<210> 697
 <211> 285
 <212> DNA
 <213> Glycine max

<400> 697

aaaacaaaaa caaagtaaga gttcactcaa tctcactgtg ttgtgagttg tgtgtgagca 60
 ccaaccaaca atggtgtctc tgactccgtt atgtttcttt attaccttgt tgatcgctgg 120
 tgcagacgca ccggcgggagc cccaaacgtg cgttttgaca ccgggggggtt gagcagagac 180
 acctttccca aaggattctt attcggaacg gccacgtctg cgtaccaagt ggaggggtatg 240
 gccacaaaag acggtcgcgg cccaagcatt tgggacgtct tcac 285

<210> 698
 <211> 287
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(287)
 <223> unsure at all n locations

<400> 698

caaaaacaaa aacaaagtaa ganttcactc aatctcactg tgttgtgagt tgtgtgtgag 60
 caccaaccaa caatngtgtc tctgactccg ttatgtttct ttattacctt gttgatcgct 120
 ggtgcagacg cagcggcgga ccccaaacgg tgcgttttga caccggggggg ttgagcagag 180
 acacctttcc caaaggattc ttattcggaa cggccacgtc tgcgtaccaa gtggagggtg 240

tggcccacaa agacggtcgc ggcccagca tttgggacgt cttcatc 287

<210> 699
 <211> 274
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(274)
 <223> unsure at all n locations

<400> 699

ctcaatctca ctgtgttgtg agttgttgtg gagcaccaac caacaatggg gtctctgact 60
 ccgttatggt tctttattac cttgttgatc gctgggtgcag acgcagcggc gganncccaa 120
 acggtgcggt ttgacaccgg ggggttgagc agagacacct ttcccaaagg attcttattc 180
 ggaacggcca cgtctgcgta ccaagtggag ggtatggccc acaaagacgg tcgcggccca 240
 agcatttggg acgtcttcat caaaaaaccc ggga 274

<210> 700
 <211> 262
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(262)
 <223> unsure at all n locations

<400> 700

ctcaatctca ctgngttatg agttatgtgt gagcnccaac caacaanggn gtctctgact 60
 accgtnatgg ttctntatta cttgtngat cgctgggtgca gacgcagcgg cggagcccaa 120
 acgngcgtn ttgacaccgg gggngtgagc agagacacct ttcccaaagg nttcttattc 180
 ggaacggcca cgtctgcgta ccaagtggag ggtatggccc acaaagacgg tcgcggccca 240
 agcatttggg acgtctnca ca 262

<210> 701
 <211> 254
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(254)

<223> unsure at all n locations

<400> 701

gttcactcaa tctcactgtg ttgtgagtn ggtgtgagca ccaaccaaca atggtgtctc 60
 tgactccgtt atgtttcttt attaccttgt tgatcgctgg tgcagancca gcggcggagc 120
 cccaaacggt gcgttttgac accgggggggt tgagcagaga cacctttccc aaaggattct 180
 tattcggaac ggccacgtct gcgtaccaag tggagggtat ggcccacaaa gacggtcgcg 240
 gcccaagcat ttgg 254

<210> 702

<211> 264

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)...(264)

<223> unsure at all n locations

<400> 702

caaaaacaaa aacaaagtaa gagttcactc aatctcactg tgttgagtg tgtgtgtgag 60
 caccaaccaa caatggtgtc tctgactccg ttatgtttct ttattacctt gttgatcgct 120
 ggtgcagacg cagcggcgga nccccaaacg gtgcgttttg acaccggggg gttgagcaga 180
 gacacctttc ccaaaggatt cttattcgga acggccacgt ctgcgtacca agtggagggt 240
 atggcccaca aagacgggtcg cggc 264

<210> 703

<211> 261

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)...(261)

<223> unsure at all n locations

<400> 703

acaaaaacaa agtaagagtt cactcaatct cactgtgttg tgagttgtgt gtgagcacca 60
 accaacaatg gtgtctctga ctccgttatg tttctttatt accttgttga tcgctgggtgc 120
 agacgcagcg gcggancccc aaacggtgcg ttttgacacc ggggggttga gcagagacac 180
 ctttcccaaa ggattcttat tcggaacggc cacgtctgcg taccaagtgg aggggtatggc 240

ccacaaagac ggtcgcggcc c

261

<210> 704
<211> 251
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(251)
<223> unsure at all n locations

<400> 704

caaaaacaaa gtaagagttc actcaatctc actgtgttgt gagttgtgtg tgagcaccaa 60
ccaacaatgg tgtctctgac tccgttatgt ttctttatta ccttggtgat cgctggtgca 120
gacgcagcgg cggncccaaa cgggtgcgttt tgacaccggg gggttgagca gagacacctt 180
tcccaaagga ttcttattcg gaacggccac gtctgcgtac caagtggagg gtatggccca 240
caaagacggt c 251

<210> 705
<211> 247
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(247)
<223> unsure at all n locations

<400> 705

caaaaacaaa aacaaagtaa gngttcactc aatctcactg tgttgtgagt tgttgtgtgag 60
caccaaccaa caatggtgtc tctgactccg ttatgtttct ttattacctt gttgatcgct 120
ggtgcagacg cagcggcgga nccccaaacg gtgcgttttg acaccggggg gttgagcaga 180
gacaccttcc ccaaaggatt cttattcgga acggccacgt ctgcgtacca agtggagggt 240
atggccc 247

<210> 706
<211> 246
<212> DNA
<213> Glycine max

<400> 706

```

caaaaacaaa aacaaagtaa gagttcactc aatctcactg tgttgtgagt tgtgtgtgag 60
caccaaccaa caatggtgtc tctgactccg ttatgtttct ttattacctt gttgatcgct 120
ggtgcagacg cagcggcgga gccccaaacg gtgcgttttg acaccggggg gttgagcaga 180
gacacctttc ccaaaggatt cttattcgga acggccacgt ctgcgtacca agtggagggt 240
atggcc 246

```

```

<210> 707
<211> 256
<212> DNA
<213> Glycine max

```

```

<220>
<221> unsure
<222> (1)...(256)
<223> unsure at all n locations

```

```

<400> 707

```

```

caaaaacaaa aacaaagtaa gagttcactc aatctcactg tgttgtgagt tgtgtgtgag 60
caccaaccaa caatggtgtc tctgactccg ttatgtttct ttattacctt gttgatcgct 120
ggtgcagacg cagcggcgga nccccaaacg gtgcgttttg acaccggggg gttgagcaga 180
gacacctttc ccaaaggatt cttattcgga acggccacgt ctgcgtacca agtggagggt 240
atggcccaca aagacg 256

```

```

<210> 708
<211> 246
<212> DNA
<213> Glycine max

```

```

<220>
<221> unsure
<222> (1)...(246)
<223> unsure at all n locations

```

```

<400> 708

```

```

caaaaacaaa gtaagagttc actacntctc actgtgttnn nagttgtgtg tgagcaccca 60
ccaacaatgg tgtctctgac tccgttatgt ttctttatta ctttgttgat cgctggtgca 120
gacgcagcgg cggagcccca aacggtgcgt tttgacaccg gggggttgag cagagacacc 180
tttcccaaag gattcttatt cggaacggcc acgtctgcgt accaagtgga gggatatggc 240
cacaaa 246

```

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<210> 709
 <211> 233
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(233)
 <223> unsure at all n locations

<400> 709

gtngagcacc aaccaacatt ggtgtctctg actnecgttat gtttctttat taccttggtg 60
 atcgtggtgc agacgcagcg gcggancccc nnacggtgcg ttttgacacc gnggggttga 120
 gctgagacac ctttcccaaa ggattcttat tcgnaacggc cacgtntgcg taccatgtgg 180
 agggatatngc ccacaaagat ggtcgcggcc naagcatttg gnacgtcttc acc 233

<210> 710
 <211> 239
 <212> DNA
 <213> Glycine max

<400> 710

caaaaacaaa gtaagagttc actcaatctc actgtgttgt gagttgtgtg tgagcaccaa 60
 ccaacaatgg tgtctctgac tccgttatgt ttctttatta ccttggtgat cgctgggtgca 120
 gacgcagcgg cggagcccca aacggtgcgt tttgacaccg ggggggttgag cagagacacc 180
 tttcccaaag gattcttatt cggaacggcc acgtctgcgt accaagtgga gggtatggc 239

<210> 711
 <211> 424
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(424)
 <223> unsure at all n locations

<400> 711

cagagaacga ncaagcncaa agccaaagct actagtcata acggggcccc accgcttccg 60
 ggaagtgcga gctagccgtg gatttggcct cccacttccc cggcgaactc atcaacgccg 120
 attccatgca ggtctaccgc ggctngatg ttctcaccaa caaactccct ntctctcacc 180
 agaacggagt tccgcatcat ctcttgggta ccgtaagccc caacgtggaa ttcactgcc 240

09975054.101501

aagcgtttcg ggattccgnt attcccatta ttgatgatat attggctcgt aatcacttgc 300
ctggttatagt tgggggcact aattactata tccaggctct tgtgagtccg tttcttttag 360
atgattctgc agaagatatg gatgaaagct gggtgggtga tccaactggg tctggaacaa 420
tttc 424

2

09076054.101501